WF455ARG*

Washing Machine
user manual

Planet First 100% Recycled Paper

This manual is made with 100% recycled paper.

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service or accessory parts, please register your product at or contact

www.samsung.com/register
1-800-SAMSUNG (726-7864)

ENERGY STAR

SAMSUNG

key features of your new Smart PowerFoam™ washer

1. VRT PLUS™ (Vibration Reduction Technology)

This Samsung washer minimizies noise and vibration with dual 3D vibration sensors and smart control technology, ensuring quiet operation.

2. The Largest Capacity

Samsung's extra-large capacity laundry machine can wash a full set of your bedding, a kingsize comforter, or up to 32 bath towels in a single load. Since you don't have to do as many loads, you save time, money, water, and energy.

3. PowerFoam™

Samsung's effective PowerForm delivers improved cleanliness with advanced fabric care. PowerFoam allows detergent to distribute evenly and penetrate fabrics faster and deeper.

4. PureCycle™(Tub Cleaning cycle)

Clean your drum with one button! This Pure Cycle is specially designed to remove detergent residue & dirt bulidup in the tub, diaphragm and door glass without the need for special chemical detergents.

5. SpeedSpray™

Samsung's new Speed Spray technology saves you up to 25%* more time when doing laundry by shortening wash times while still keeping all segments of the washing process and getting your clothes clean.

*Based on 8 pounds loads, Normal cycle (under Normal Soil level without any options), on previous and existing 4.3 cu.ft. Samsung front loading washers released until 2011 without Speed Spray.

**Speed Spray performs in Normal, Bedding PLUS, Deep Steam, Stain Away and Eco Cold cycle and the saving time may vary by cycles and various load and option compositions.

6. Deep steam

The Deep Steam feature boosts cleaning performance and loosens grime and dirt, thus providing superior cleaning results.

7. Smart Control

Samsung's innovative Smart Control technology enables you to control your washer through personal technologies such as smart phones. You don't have to be on standby until the cycle ends. Smart Control allows you to monitor the washing process and let you know when the cycle is complete.

8. Smart Care

Samsung's Smart Care, an automatic error-monitoring system, detects and diagnoses problems at an early stage and provides a quick and easy solution. With the innovative Smart Control technology, you can also be alerted when the problem occurs via your smart phones.

9. Stylish design

The stylish design of this washer blends well with your environment.

10. Digital Display & Center jog dial

The Jog dial enables you to select cycles in both directions with ease, and the display is easy to use and understand.

WF455AG-03159A_EN.indd Sec9:2 2012-04-13 11:59:19

11. DD Motor

The power to handle anything! Our direct-drive inverter motor delivers power right to the washer tub from a variable speed, reversible motor. A beltless direct-drive motor generates a higher spin speed of 1,300rpm for more effective, quiter operation. The washer also has fewer moving parts, meaning fewer repairs.

12. Sanitize

When selecting this cycle, the water heats to an extra high temperature to remove 99.9% of certain bacteria typically found on clothing, bedding, or towels. This certification is conducted by NSF International, an independent third-party testing and certification organization.

Please check the garment care label to avoid garment damage. Only sanitizing cycles have been designed to meet the requirements of this protocol for sanitization efficacy.

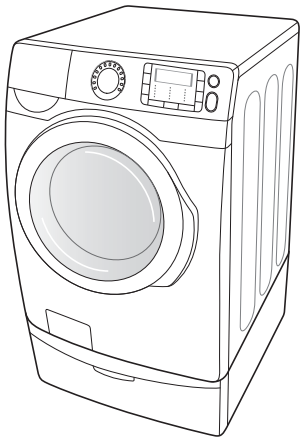
NSF Protocol P172
Sanitization Performance of Residential and Commercial, Family-Sized Clothes Washers

13. Pedestal with Storage Drawers (Model No : WE357*)

An optional 15" pedestal is available to raise the washer for easier loading and unloading. It also offers a built-in storage drawer that can hold a 100 oz. bottle of detergent

14. Stacking (Model No : SK-5A/XAA)

Samsung washers and dryers can be stacked to maximize usable space. An optional stacking kit is available for purchase from your Samsung retailer.



<Pedestal with Storage Drawers>



<Stacking>

WF455AG-03159A_EN.indd Sec9:3 2012-04-13 11:59:19

safety information

Congratulations on your new Samsung washer. This manual contains important information on the installation, use and care of your appliance. Please take time to read this manual to take full advantage of your washer's many benefits and features.

WHAT YOU NEED TO KNOW ABOUT SAFETY INSTRUCTIONS

The Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur. It is your responsibility to use common sense, caution, and care when installing, maintaining and operating your washer.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS

What the icons and signs in this user manual mean:

⚠ **WARNING**	Hazards or unsafe practices that may result in **severe personal injury or death**. To reduce the risk of fire, explosion, electric shock, or personal injury when using your washer, follow these basic safety precautions:
⚠ **CAUTION**	Hazards or unsafe practices that may result in **minor personal injury or property damage**.

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions explicitly.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the service center for help.
	Note

These warning signs are here to prevent injury to you and others.
Please follow them explicitly.
After reading this section, keep it in a safe place for future reference.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:4 2012-04-13 11:59:20

⚠ WARNING

To reduce the risk of fire, electric shock, or injury to persons when using your appliance, follow basic precautions, including the following:

1. Read all instructions before using the appliance.
2. Do not wash or dry articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, dry-cleaning solvents, other flammable or explosive substances as they give off vapors that could ignite or explode.
3. Do not allow children to play on or in the appliance. Close supervision of children is necessary when the appliance is used near children.
4. Before the appliance is removed from service or discarded, remove the door to the washing or drying compartment.
5. Do not reach into the appliance if the drum is moving.
6. Do not install or store this appliance where it will be exposed to the weather.
7. Do not tamper with controls.
8. Do not repair or replace any part of the appliance or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.
9. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
10. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for 2 weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washer or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:5 2012-04-13 11:59:20

safety information

WARNING CRITICAL INSTALLATION WARNINGS

Plug the power cord into an AC 120 V / 60 Hz / 15 A wall socket or higher and use the socket for this appliance only. In addition, do not use an extension cord.

- Sharing a wall socket with other appliances, using a power strip, or using an extension cord may result in electric shock or fire.
- Do not use an electric transformer. It may result in electric shock or fire.
- Ensure that the voltage, frequency, and amperage provided at the wall socket match the power specifications of the product.

The installation of this appliance must be performed by a qualified technician or service company.

- Failing to do so may result in electric shock, fire, an explosion, problems with the product, or injury.

Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.

- Unplug the power plug and clean it with a dry cloth.
- Failing to do so may result in electric shock or fire.

Plug the power plug into the wall socket in the right direction so that the cord runs towards the floor.

- If you plug the power plug into the socket in the opposite direction, the electric wires within the cable may be damaged and this may result in electric shock or fire.

This appliance must be properly grounded.
Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.

- Improper grounding may result in electric shock, fi re, an explosion, or problems with the product.
- Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.

Do not install this appliance near a heater or inflammable material.
Do not install this appliance in a humid, oily or dusty location, or in a location exposed to direct sunlight and water (rain drops).
Do not install this appliance in a location where gas may leak.

- This may result in electric shock or fire.

Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cord, or loose wall socket.

- This may result in electric shock or fire.

Do not pull or excessively bend the power cord.
Do not twist or tie the power cord.
Do not hook the power cord over a metal object, place a heavy object on the power cord, insert the power cord between objects, or push the power cord into the space behind the appliance.

- This may result in electric shock or fire.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:6 2012-04-13 11:59:20

Do not pull the power cord when unplugging the power plug.

- Unplug the power plug by holding the plug.
- Failing to do so may result in electric shock or fire.

If the power plug or power cord is damaged, contact your nearest service center.

CAUTION INSTALLATION CAUTIONS

Position the appliance so that the power plug is easily accessible.

- Failing to do so may result in electric shock or fire due to electric leakage.

Install your appliance on a level and hard floor that can support its weight.

- Failing to do so may result in abnormal vibrations, noise, or problems with the product.

Unplug the power plug when the appliance is not being used for long periods of time or during a thunder/lightning storm.

- Failing to do so may result in electric shock or fire.

WARNING CRITICAL USAGE WARNINGS

If the appliance is flooded, cut the power immediately and contact your nearest service center.
If the appliance emits a strange noise, a burning smell, or smoke,, unplug the power plug immediately and contact your nearest service center.

- Failing to do so may result in electric shock or fire.

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power plug. Do not touch the appliance or power cord.

- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

Do not wash items contaminated with gasoline, kerosene, benzene, paint thinner, alcohol or other flammable or explosive substances.

- This may result in electric shock, fire or an explosion.

Do not open the washer door by force while the washer is operating (high-temperature washing/drying/spinning).

- Water flowing out of the washer may result in burns or cause the floor to be slippery. This may result in injury.
- Opening the door by force may result in damage to the product or personal injury.

Make sure to remove the packaging (sponge, styrofoam) attached to the bottom of the washer before using it.

Do not insert your hand under the washer.

- This may result in injury.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:7 2012-04-13 11:59:20

Do not touch the power plug with wet hands.

- This may result in electric shock.

Do not turn the appliance off by unplugging the power plug while an operation is in progress.

- Plugging the power plug into the wall socket again may cause a spark and result in electric shock or fire.

Keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.

- If a child places a bag over its head, it may result in suffocation.

Do not let children or infirm persons use this washer unsupervised.

- Failing to do so may result in electric shock, burns or injury.

Do not insert your hand or a metal object under the washer while it is operating.

- This may result in injury.

Make sure the detergent drawer is closed before you put laundry into the washer or remove laundry from the washer.

- If the detergent drawer is open, you could strike the drawer with your head and injure yourself.

Do not attempt to repair, disassemble, or modify the appliance yourself.

- Do not use any fuse (such as cooper, steel wire, etc.) other than the standard fuse.
- If you need to repair or reinstall the appliance, contact your nearest service center.
- Failing to do so may result in electric shock, fire, problems with the product, or injury.

If water has enters the appliance anywhere but the drum, unplug the power plug and contact your nearest service center.

- Failing to do so may result in electric shock or fire.

When the water supply hose comes loose from the faucet and floods the appliance, unplug the power plug.

- Failing to do so may result in electric shock or fire.

If any foreign substance enters the appliance, unplug the power plug and contact you nearest service center.

- Failing to do so my result in electric shock or fire.

CAUTION USAGE CAUTIONS

If the the washer is contaminated by a foreign substance such as detergent, dirt, food waste, etc., unplug the power plug and clean the washer using a damp, soft cloth.

- Failing to do so may result in discoloration, deformation, damage or rust.

If struck hard, the front glass can break. Take care when using the washer.

- If the glass is broken, it may result in injury.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:8 2012-04-13 11:59:20

After a water supply failure or when reconnecting the water supply hose, open the faucet slowly.
Open the faucet slowly after a long period of non-use.

- The air pressure in the water supply hose or the water pipe may result in damage to a part or in water leakage.

If a drain error occurs during an operation, check if there is a drainage problem.

- If the washer is used when it is flooded because of a drainage problem,, it may result in electric shock or fire due to electric leakage.

Insert the laundry into the washer completely so that laundry does not get caught in the door.

- If laundry gets caught in the door, it may result in damage to the laundry or the washer, or result in water leakage.

Ensure that the faucet is turned off when the washer is not being used.

- Ensure that the screw on the water supply hose connector is firmly connected to the faucet and properly tightened.
- Failing to do so may result in property damage or injury.

Take care that the Rubber Seal and the Front Door Glass are not contaminated by a foreign substance (e.g. waste, thread, hair, etc.)

- If a foreign substance is caught in the door or the door is not completely closed, it may cause water leakage.

Open the faucet and check if the water supply hose connector is firmly tightened and that there is no water leaking before using the product.

- If the water supply hose connectors are loose, it may result in water leakage.

The product you have purchased is designed for domestic use only.

The use for business purposes qualifi es as product misuse. In this case, the product will not be covered by the standard warranty provided by Samsung and no responsibility can be attributed to Samsung for malfunctions or damages resulting from such misuse.

If the wash is not performed and the laundry is left for a period of time after adding detergent or applying stain remover or pre-treatment onto the laundry, the laundry may be discolored.

Select the recommended cycle and temperature on the basis of the laundry items, sort the laundry by color on the basis of its colorfastness and select the appropriate cycle.

Make sure that foreign objects such as pins, buttons and coins are removed from clothing items when adding laundry into the washer. Wash dirty laundry separately from relatively clean items and wash fragile items separately from tougher textiles.

If an item is stained, wash it as fast as possible. Use stain remover or detergent only after testing the colorfastness of the item by applying a small quantity to an inside seam.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:9 2012-04-13 11:59:20

safety information

Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.

- This may result in electric shock, fire, problems with the product, or injury.

Do not operate the appliance with wet hands.

- This may result in electric shock.

Do not spray volatile material such as insecticide onto the surface of the appliance.

- As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

Do not place an object that generates a electromagnetic field near the washer.

- This may result in injury due to a malfunction.

Since the water drained during a high-temperature wash or drying cycle is hot, do not touch the water.

- This may result in burns or injury.

Do not wash, spin or dry water-proof seats, mats or clothing (*).

- Do not wash thick, hard mats even if the washer mark is on the care label.
- This may result in injury or damage to the washer, walls, floor or clothing due to abnormal vibrations.

* Woolen bedding, rain covers, fishing vests, ski pants, sleeping bags, diaper covers, sweat suits, and bicycle, motor cycle, car covers, etc.

Do not operate the washer when the detergent box is removed.

- This may result in electric shock or injury due to water leakage.

Do not touch the inside of the tub during or just after drying as it is hot.

- This may result in burns.

Do not insert your hand into the detergent dispenser after opening it.

- This may result in injury as your hand may be caught.

Do not place any non-laundry objects, such as shoes, food waste, or animals into the washer.

- This can cause abnormal vibrations that can damage the washer, and, in the case of pets, cause severe injury or death.

Do not press the buttons using sharp objects such as pins, knifes, fingernails, etc.

- This may result in electric shock or injury.

Do not wash laundry contaminated by oils, creams or lotions usually found in skincare shops or massage clinics.

- This may result in the rubber seal becoming deformed and water leakage.

Do not leave metal objects (safety pins, hair pins, etc.) or bleach in the tub for long periods of time.

- This may cause the tub to rust.
- If rust appears on the surface of the tub, apply a neutral cleansing agent to the surface and use a sponge to clean it. Never use a metal brush.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:10 2012-04-13 11:59:20

Do not use dry cleaning detergent directly and do not wash, rinse, or spin laundry contaminated by dry cleaning detergent.

- This may result in spontaneous combustion or ignition due to the heat from the oxidation of the oil.

Do not use hot water from water cooling/heating devices.

- This may result in problems with the washer.

Do not use natural hand-washing soap in the washer.

- If it hardens and accumulates inside the washer, it may result in problems with the product, discoloration, rust or bad odors.

Do not wash large laundry items such as bedding in the washing net.

- Failing to do so may result in injury due to abnormal vibrations.
- Place smaller items, such as lace socks and lingerie in the washing net.

Do not use hardened detergent.

- If it accumulates inside the washer, it may cause water leakage.

Do not wash throw rugs or doormats.

- If you wash throw rugs or doormats, sand will accumulate inside the washer. It may result in errors such as no draining.

Take care that children's fingers are not caught in the door when closing it.

- This may result in injury.

WARNING CRITICAL CLEANING INSTRUCTIONS

Do not clean the appliance by spraying water directly onto it.
Do not use benzene, thinner or alcohol to clean the appliance.

- This may result in discoloration, deformation, damage, electric shock or fire.

Before cleaning or performing maintenance, unplug the appliance from the wall socket.

- Failing to do so may result in electric shock or fire.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:11 2012-04-13 11:59:20

safety information

REGULATORY NOTICE

1. FCC Notice

FCC CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules. Operation is Subject to following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received including interference that cause undesired operation.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

FCC STATEMENT:

This equipment has been tested and found to comply within the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a different circuit from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:12 2012-04-13 11:59:20

2. IC Notice

The term “IC” before the radio certification number only signifies that Industry Canada technical

specifications were met. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

IC RADIATION EXPOSURE STATEMENT:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

SAVE THESE INSTRUCTIONS

WF455AG-03159A_EN.indd Sec1:13 2012-04-13 11:59:20

contents

INSTALLING YOUR WASHER 16

16 Unpacking your washer
16 Overview of your washer
17 Electrical
17 Grounding
17 Water
17 Drain facility
18 Flooring
18 Location considerations
18 Alcove or closet installation
18 Undercounter installation(washer only)
19 With optional pedestal base or stacking kit
20 Important note to installer

OPERATING INSTRUCTIONS 23

23 Loading your washer
23 Getting started

WASHING A LOAD OF LAUNDRY 24

24 Overview of the control panel
26 Delay Start
27 Child Lock
28 Spin Only
28 Drum Light
28 Garment+
28 My cycle
29 Steam
29 Smart Care
30 Washing clothes using the cycle selector
31 Setting the Smart Control
31 Configuring the wired/wireless sharer
31 Check before installation
32 Connecting to the network using the WPS setting
33 Connecting to the network using the AP setting
34 Downloading and running the mobile app, Samsung Smart Washer/Dryer App
36 Using the mobile App
36 Disconnecting the connection
36 Starting a new wash
38 Registering your washer
40 Quick guide for Wi-Fi setting and AP connecting
41 Quick guide for device certification
42 Detergent use
42 Features

WF455AG-03159A_EN.indd Sec6:14 2012-04-13 11:59:20

MAINTAINING YOUR WASHER 44

44 Cleaning the exterior
44 Cleaning the interior
45 Cleaning the dispensers
45 Storing your washer
46 Cleaning the debris filter
47 Cleaning the door seal/bellow
47 Preserving the top cover and the front frame
48 Pure Cycle™

TROUBLESHOOTING 49

49 Check these points if your washer…
51 Information codes
53 Network Setup Q&A

APPENDIX 55

55 Fabric care chart
56 Cycle chart
58 Helping the environment
58 Declaration of conformity
58 Specification
59 Open Source Announcement

WF455AG-03159A_EN.indd Sec6:15 2012-04-13 11:59:20

installing your washer

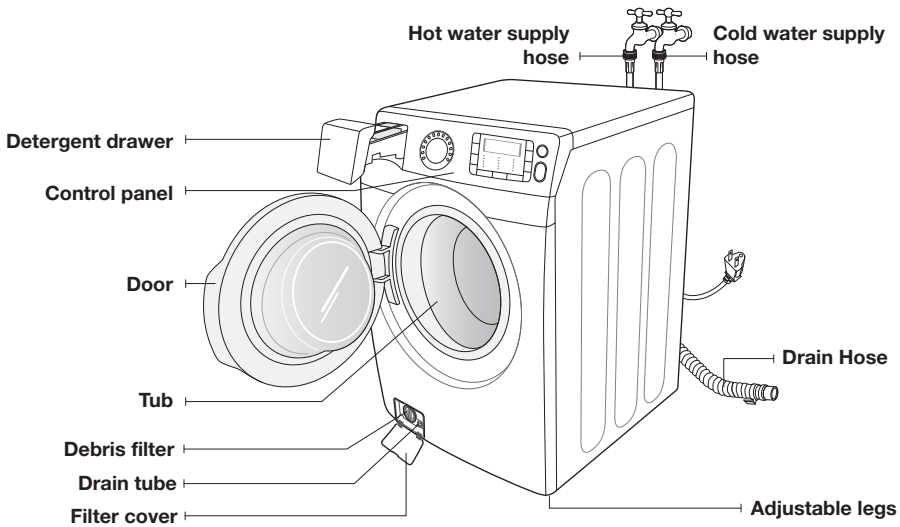
UNPACKING YOUR WASHER

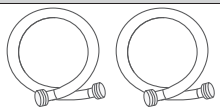
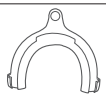
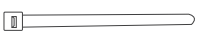
Unpack your Washer and inspect it for shipping damage. Make sure you have received all of the items shown below. If your Washer was damaged during shipping, or you do not have all of the items, contact 1-800-SAMSUNG(726-7864).

To prevent personal injury or strain, wear protective gloves whenever lifting or carrying the unit.

⚠ WARNING Packing materials can be dangerous to children; keep all packing material (plastic bags, polystyrene, etc.) well out of the reach of children.

OVERVIEW OF YOUR WASHER



Parts supplied		
 Wrench	 Bolt hole covers	 Water supply hoses
 Hose guide	 User manual book	 Plastic zip hose tie
Tools needed		
 Pliers	 Flat screwdriver	

WF455AG-03159A_EN.indd Sec3:16 2012-04-13 11:59:20

BASIC LOCATION REQUIREMENTS

Electrical

- 120 Volt 60 Hz 15 AMP fuse or circuit breaker
- Individual branch circuit serving only your Washer is recommended.
- Your Washer is equipped with a power cord.

CAUTION NEVER USE AN EXTENSION CORD.

Grounding

ELECTRICAL GROUNDING IS REQUIRED ON THIS APPLIANCE.

This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current.

This appliance is equipped with a power cord having a three-prong grounding plug for use in a properly installed and grounded outlet.

The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance – if it does not fit the outlet, have a proper outlet installed by a qualified electrician.

IMPORTANT SAFETY PRECAUTIONS

- To prevent unnecessary risk of fire, electrical shock or personal injury, all wiring and grounding must be done in accordance with the National Electrical Code ANSI/FNPA, No. 70 Latest Revision and local codes and ordinances. It is the personal responsibility of the appliance owner to provide adequate electrical service for this appliance.

CAUTION NEVER CONNECT GROUND WIRE TO PLASTIC PLUMBING LINES, GAS LINES, OR HOT WATER PIPES.

Water

To correctly fill your Washer in the proper amount of time, water pressure of 20-116 psi (137-800kPa) is required.

Water pressure less than 20 psi may cause water valve failure, or may not allow the water valve to shut off completely. Or, it may extend the fill time beyond what your Washer controls allow, resulting in your Washer turning off. A time limit is built into the controls in the event of an internal hose becoming loose and flooding your home.

The water faucets must be within 4 feet/122 cm of the back of your Washer for the inlet hoses provided with your Washer.

Accessory inlet hoses are available in various lengths up to 10 feet/305cm for faucets that are further away from the back of your Washer.

To avoid the possibility of water damage:

- Have water faucets easily accessible
- Turn off faucets when the washer is not in use.
- Periodically check that there is no leakage from the water inlet hose fittings.

WARNING CHECK ALL CONNECTIONS AT THE WATER VALVE AND FAUCET FOR LEAKS.

CAUTION Using hard water or bad quality water may cause the water supply valve to operate abnormally.

Drain facility

The recommended height of the standpipe is 18 in/46 cm. The drain hose must be routed through the drain hose clip to the standpipe. The standpipe must be large enough to accept the outside diameter of the drain hose. The drain hose is attached at the factory.

WF455AG-03159A_EN.indd Sec3:17 2012-04-13 11:59:20

installing your washer

Flooring

For best performance, your Washer must be installed on a solidly constructed floor. Wood floors may need to be reinforced to minimize vibration and/or unbalanced load situations. Carpeting and soft tile surfaces are contributing factors in vibration may cause your washer to move slightly during the spin cycle.

Never install your washer on a platform or weakly supported structure.

Location considerations

Do not install your washer in areas where water may freeze, since your washer will always maintain some water in its water valve, pump, and hose areas. This can cause damage to the pump, hoses and other components.

Alcove or closet installation

MINIMUM CLEARANCES FOR CLOSET AND ALCOVE INSTALLATIONS:

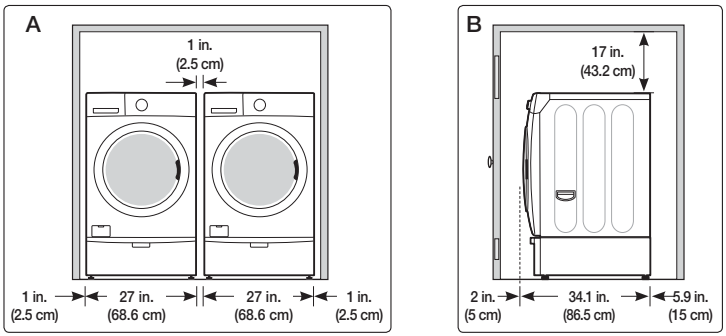
Sides – 1 in / 25 mm

Top – 17 in / 432 mm

Rear – 5.9 in / 150 mm

Closet Front – 2 in / 51 mm

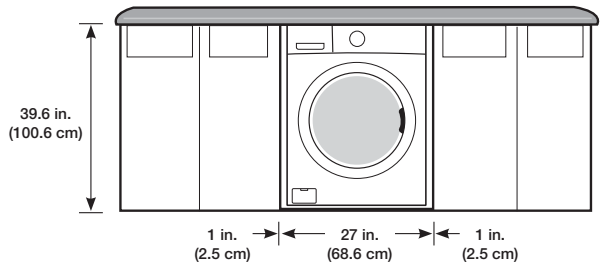
If the washer and dryer are installed together, the closet front must have at least a 72 in^2 (465 cm^2) unobstructed air opening. Your washer alone does not require a specific air opening.



A. Recessed area

B. Side view - closet or confined area

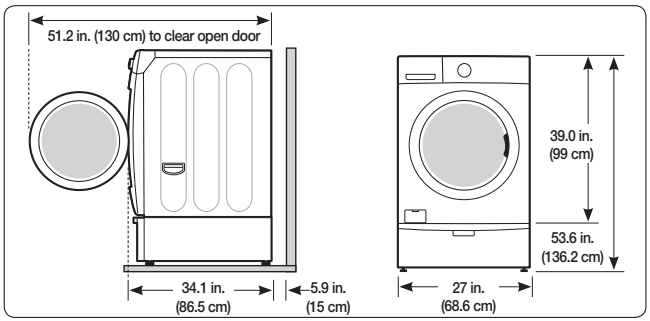
Undercounter installation(washer only)

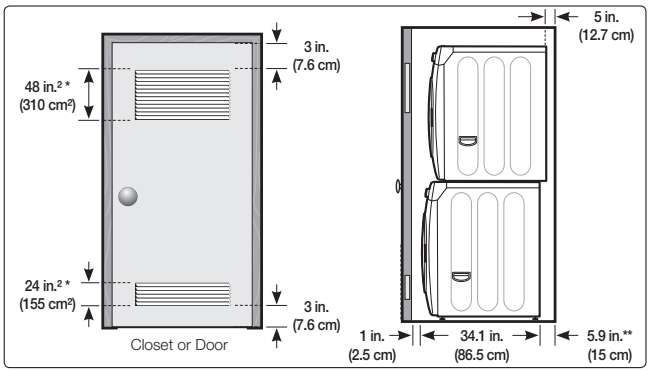


WF455AG-03159A_EN.indd Sec3:18 2012-04-13 11:59:21

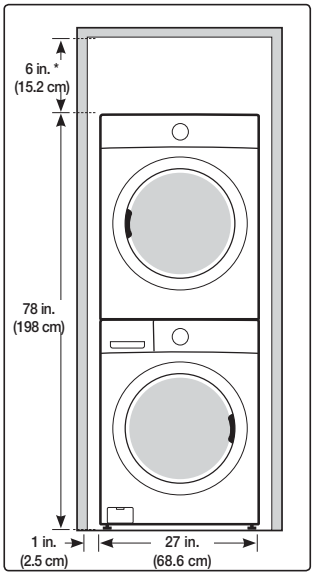
With optional pedestal base or stacking kit

Required Dimensions for Installation With Pedestal





Required Dimensions for Installation With Stacking Kit



It is not recommended to stack DV457* on your washer.
(it might be hard to control dryer LCD because of the viewing angle.)

*** Required spacing**

**** External exhaust elbow requires additional space.**

WF455AG-03159A_EN.indd Sec3:19 2012-04-13 11:59:21

installing your washer

IMPORTANT NOTE TO INSTALLER

Please read the following instructions carefully before installing your Washer.

These instructions should be retained for future reference.

We recommend you hire a professional for installation of this washer.

STEP 1
Selecting a Location

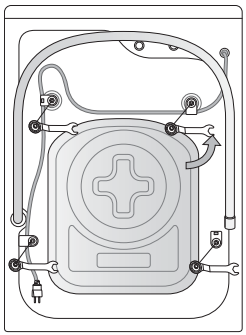
Before you install your washer, make sure the location:

- Has a hard, level surface without carpeting or flooring that may obstruct ventilation.
- Has no dust, oil and detergent etc.
- Is away from direct sunlight
- Has adequate ventilation
- Will not freeze (below 32°F or 0°C)
- Is away from heat sources such as oil or gas
- Has enough slack for the power cord.
- Doesn't have any carpeting that will obstruct ventilation openings.

STEP 2
Removing the Shipping Bolts

Before using your Washer, you must remove the four shipping bolts from the back of the unit.

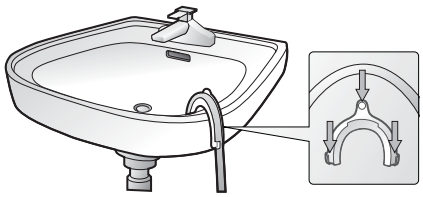
1. Loosen all the bolts with the supplied wrench.
2. Slide the bolt and spacer up and remove the bolt with the spacer through the hole in the rear wall of your washer. Repeat for each bolt.
3. Fill the holes with the supplied Bolt Hole Covers (See page 16).
4. Keep the shipping bolts and spacers for future use.

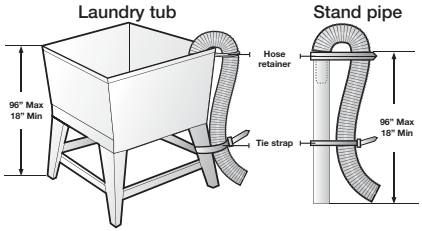


STEP 3
Installing your Washer

1. Place the drain hose in the drain facility. Be sure an airtight connection is NOT made between the drain hose and the standpipe. The standpipe must be at least 18 in or 46 cm high.

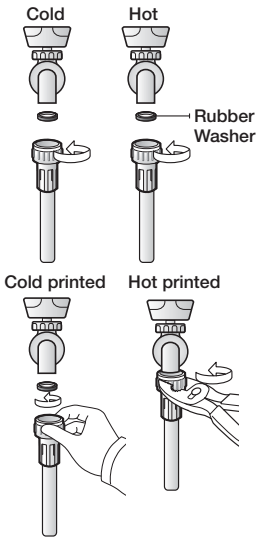
Caution must always be exercised to avoid collapsing or damaging the drain hose. For best results, the drain hose should not be restricted in any way – by elbows, couplings, or excessive lengths. For situations where the drain hose cannot be conveniently elevated to at least 18 in or 46 cm, the drain hose must be supported.





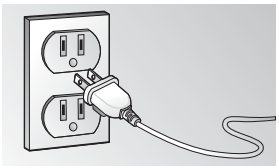
WF455AG-03159A_EN.indd Sec3:20 2012-04-13 11:59:21

2. Check the inlet hose to ensure a washer is inside each fill hose.
   Thread the inlet hoses to the HOT and COLD faucet connections.
   On the other end of the hose, check for one rubber washer per hose and install each fill hose to the water valve. Make sure the hose with the Hot printed line is attached to the HOT faucet. Tighten by hand until snug, then two-thirds of a turn with pliers.
3. Connect the other end of the Hot and Cold water supply hose to the inlet water valve at the rear of the washing machine.Tighten by hand until snug, then two-thirds of a turn with pliers.

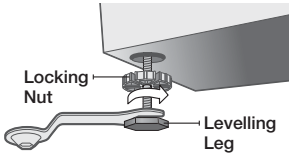


For correct water use, connect both HOT and COLD water valves. If either or both are not connected, an “nF” (no fill) error can occur.

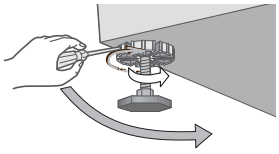
4. Turn on the “HOT” and “COLD “water supply and check all connections at the water valve and the **faucet for leaks**.



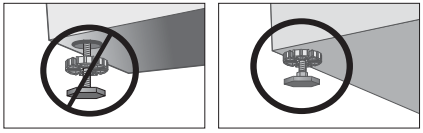
5. Plug the power cord into a 3-Prong, well grounded 120 volt 60 Hz approved electrical outlet protected by a 15-amp fuse or comparable circuit breaker.
   Your washer is grounded through the third prong of the power cord when plugged into a three-prong grounded receptacle.
6. Slide your washer into position.
7. Level your washer by turning the leveling legs in or out as necessary by hand or by using the wrench included with your washer.
   When your washer is level, tighten the locking nuts using the wrench or (-) flathead screwdriver.



Your Washer must be leveled on all four sides. A carpenter’s level should be used on all four corners of your Washer. It’s a good idea after the first dozen washes to recheck your washer’s levelness.



Avoid damage to the legs. Do not move the Washer unless the Locking-nuts are fastened to the bottom of the Washer.



WF455AG-03159A_EN.indd Sec3:21 2012-04-13 11:59:22

STEP 4

Calibration mode

Before using Calibration mode, be sure to take out all items from the drum.

Your Samsung washer automatically detects the weight of the laundry.

For more accurate weight detection, please run Calibration Mode after the installation.

Calibration mode is performed by following the steps below.

1. Turn on the washer.
2. Press the **Temp** button and **Delay Start** button simultaneously at least 3 seconds.
3. Remove any contents in the tub and close the door.
4. Press the **Start/Pause** button to run Calibration Mode.
5. The drum rotates clockwise and counterclockwise approximately for for approximately 3 minutes.
6. When Calibration Mode is finished, the “En/End” appears on the display and the washing machine turns off automatically. The washing machine is now ready for use.

WF455AG-03159A_EN.indd Sec3:22 2012-04-13 11:59:22

LOADING YOUR WASHER

- You can fill the tub with dry, unfolded clothes; but DO NOT OVERLOAD the tub.
- Overloading may reduce washing efficiency, cause excess wear, and possibly cause creasing or wrinkling of the load.
- Wash delicate items such as bras, hosiery, and other lingerie in the Delicates cycle with similar lightweight items.
- When washing big bulky items or a few smaller items that don't fill the tub completely – a rug, a pillow, stuffed toys, or one or two sweaters, for example – add a few towels to improve tumbling and spin performance.

During the spin cycle, the washer may add additional water to redistribute the excessive imbalance inside the drum.

- When washing heavily soiled loads, do not overload your Washer in order to assure good cleaning results.
- To add a forgotten item:
  1. Press the Start/Pause Button.
  2. Wait for the Door Lock light to go out (5 seconds)
  3. Add the item, close the door, and press the Start/Pause Button. After a 10-second pause, the cycle will resume.

GETTING STARTED

1. Load your Washer.
2. Close the door.

CAUTION Push the laundry into the drum completely to prevent the laundry from being caught in the door or from falling out of the drum.

3. Add detergent and additives to the dispenser (see page 42).
4. Select the appropriate cycle and options for the load (see page 24).
5. Press the **Start/Pause** Button.

The drum automatically rotates and measures the weight of the laundry without supplying water in order to adjust the wash time. (The rotating display on the display panel indicates that the weight of the laundry is being measured.)

6. The Wash Indicator light will illuminate.
7. The estimated cycle time will appear in the display. The time may fluctuate to better indicate the time remaining in the cycle.

The actual time required for a cycle may differ from the estimated time in the display depending on the water pressure, water temperature, detergent, and laundry.

8. Before your washer starts to fill, it will make a series of clicking noises to check the door lock and do a quick drain.

- When the cycle is complete, the Door Lock light will go out and "End" will appear in the display.
- DO NOT attempt to open the door until the Door Lock light is off. To add a forgotten item, see "Loading your Washer" section. (page 23)
- When your Washer is restarted after a pause, expect a delay of up to 15 seconds before the cycle continues.
- Pressing the Power button cancels the cycle and stops your washer.
- The Pre Wash, Wash, Rinse and Spin indicator lights will illuminate during those portions of the cycle.

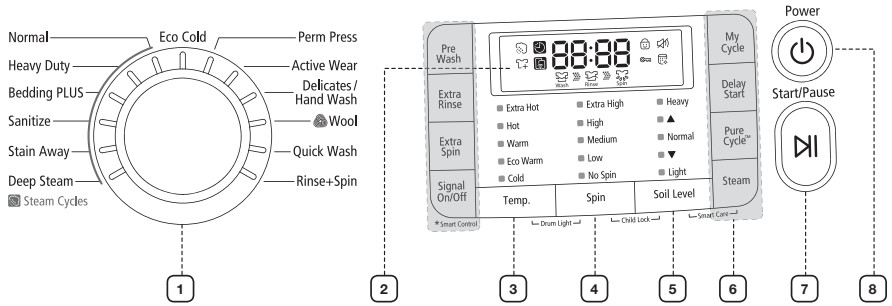
WARNING Do not place anything on top of your washer while it is running.

WF455AG-03159A_EN.indd Sec2:23 2012-04-13 11:59:22

washing a load of laundry

WARNING: To reduce the risk of fire, electric shock, or injury to persons, read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.

OVERVIEW OF THE CONTROL PANEL



1 Cycle Selector

Select the appropriate cycle for the type of load.
This will determine the tumble pattern and spin speed for the cycle.

To minimize wrinkling of laundry, select the Perm Press cycle.

Normal - For most fabrics including cottons, linens, and normally soiled garments.

Heavy Duty - For sturdy, colorfast fabrics and heavily soiled garments.

Bedding PLUS - For bulky items such as blankets and sheets. When you are washing comforters, use liquid detergent.

Sanitize - For heavily soiled, colorfast garments. This cycle heats the water to 150°F to eliminate bacteria.

If Pause is selected during the heating portion of the Sanitize Cycle, your Washer door will remain locked for your safety.

Stain Away - For stained clothes. Stain Away cycle provides outstanding stain removal performance, with the utmost gentle care, avoiding the need for pre-treatment of stains.

For Best stain removal performance , it is recommended to use hot temperature option in this cycle, in which the wash temperature is increased using the internal heater, for overall cleaning of the different stains.

Deep Steam - For heavily soiled, colorfast garments, this cycle provides high washing temperature and steam and is efficient in cleaning stains.

Eco Cold - It provides useful daily care for normally and lightly soiled laundry by using only cold water, saving energy and caring fabric.

It cleans as effectively as the warm wash setting on ***conventional Normal** cycle under Normal and Light Soil level options. (Cleaning performance of Eco Cold cycle may not be equal to conventional Normal cycle under heavy soil level option) For best result, it is recommended to use less than 8 pounds.

* conventional Normal cycle - Normal cycle on previous and existing Samsung front loading washers released until 2009 without PowerFoam

Perm Press - For wash-and-wear, synthetic fabrics, and lightly to normally soiled garments.

Active Wear - Use this cycle to wash exercise wear such as sports jersey, training pants, shirts/tops and other performance clothing. This cycle provides effective soil removal with gentle action for special fabric care.

WF455AG-03159A_EN.indd Sec5:24 2012-04-13 11:59:22

	Delicates/Hand Wash - For sheer fabrics, bras, lingerie silk, and other handwash-only fabrics. For best results, use liquid detergent. **Wool** - For machine-washable wool. Loads should be under 8 pounds. For best results, we recommend a load of 4.4 pounds or less. • The Wool cycle washes laundry by moving the wash drum horizontally to maintain the characteristics of the wool fibers and to prevent damage to the cloth. It then stops for a while to allow the laundry to soak in the water. This pause in the operation of the Wool cycle is normal. • We recommend you use a neutral detergent to prevent damage to the cloth and to improve the washing results. WOOLMARK APPAREL CARE The wool wash cycle of this machine has been approved by Woolmark for the washing of machine washable Woolmark products, provided that the products are washed according to the instructions on the garment label and those issued by the manufacturer of this washing machine, M1207. **Quick Wash** - For lightly soiled garments needed quickly. **Rinse + Spin** - Use for loads that need rinsing only or to add rinse-added fabric softener to a load.
2 **Digital Display**	The large Digital Display is easy to use. It provides instructions and diagnostics while keeping you updated on the cycle status and time remaining.
3 **Temperature selection button**	Press the button repeatedly to cycle through the different water temperature options. **Extra Hot** - Heavily soiled, colorfast items. Only available with the Sanitize cycle. **Hot** - Whites and heavily soiled, colorfast items. **Warm** - Colorfast items. When warm rinse is selected, only the final rinse will be warm. The other rinses will be cold to conserve energy. **Eco Warm** - Moderately soiled, colorfast items; most wrinkle-free items. **Cold** - Brightly colored, very lightly soiled items.
4 **Spin selection button**	Press the button repeatedly to cycle through the different spin speed options. **Extra High** - Removes more water from loads during spin. To minimize wrinkling of wrinkle-free and no-iron fabrics, DO NOT use the Extra High spin option for these loads, nor overload your Washer. **High** - Use for underwear, t-shirts, jeans and sturdy cottons. **Medium** - Use for jeans, wrinkle-free or wash-and-wear items and synthetics. **Low** - Use for delicate items needing a slow spin speed. **No Spin** - Drains your Washer without spinning. Use for extremely delicate items that cannot tolerate any spin.
5 **Soil Level selection button**	Press the button to select the soil level/washing time. (Heavy → ▲ → Normal → ▼ → Light) **Heavy** - For heavily soiled loads. ▲ **Normal** - For moderately soiled loads. This setting is best for most loads. ▼ **Light** - For lightly soiled loads.

WF455AG-03159A_EN.indd Sec5:25 2012-04-13 11:59:22

6 **Select Cycle Option**	Press these buttons to select different cycle options. **Pre Wash** - To use this feature, add detergent to the pre wash section of the detergent compartment. When turned on, the washer fills with cold water and detergent, tumbles, then drains and advances to the selected wash cycle. Some cycles cannot be selected with with this option. You cannot select the prewash option in the Wool, Quick Wash, Delicates/Handwash and Rinse+Spin cycles. **Extra Rinse** - Add an additional rinse at the end of the cycle to more thoroughly remove laundry additives and perfumes. **Extra Spin** - Add additional time to remove more water from loads. **Signal On/Off** - When you activate Signal off function, the "Signal off [🔇]" lamp illuminate. **My Cycle** - Choose your favorite cycle including temperature, spin, soil level, option, etc. **Delay Start** - Any cycle can be delayed for up to 24 hours in one-hour increments. Displayed hour indicates the time at which the wash will be started. **Pure Cycle™** - Use to clean dirt and bacteria from the drum. Regular use (after every 40 washes) is recommended. No detergent or bleach is needed (see page 48). **Steam** - Press this button to use the Steam Wash function. Steam Wash is available with Heavy Duty, Normal, Perm Press, Sanitize, Bedding PLUS cycles. For heavily soiled, colorfast garments, Steam Wash improves stain treatment and uses less water (See page 29).
7 **Start/Pause selection button**	Press to pause and restart programs.
8 **Power button**	Press once to turn your washer on, press again to turn your washer off. If the washer is left on for more than 10 minutes without any buttons being touched, the power automatically turns off.

Delay Start

You can set the washing machine to fi nish your wash automatically at a later time, choosing a delay of between 1 to 24 hours (in 1 hour increments). The hour displayed indicates the time at which the wash will be finished.

1. Manually or automatically set your washing machine according to the type of laundry you are washing.
2. Press the **Delay Start** button repeatedly until the delay time is set.
3. Press the **Start/Pause** button. The "Delay Start [🕒]" indicator will be lit, and the clock will begin counting down until it reaches the set time.
4. To cancel a Delay End function, press the **Power** button and then turn the washing machine on again.

WF455AG-03159A_EN.indd Sec5:26 2012-04-13 11:59:23

Child Lock

This function prevents children from playing with your washer.

CAUTION Although the Child Lock function is activated, you must keep an eye on children so that they do not operate your washer.

Activating the Child Lock function

Press and hold both the **Spin** and **Soil Level** buttons simultaneously for approximately 3 seconds.

- When you activate the Child Lock function, the door locks and the "Child Lock [ ]" lamp illuminates.
- If you press the **Start/Pause** button after you have activated the Child Lock function , none of the buttons will work except for the **Power** button.
- If you press a button when the buttons are locked, the "Child Lock [ ]" lamp blinks.

Pausing the Child Lock function

When the door is locked or the buttons are locked by the Child Lock function, you can pause the Child Lock operation for 1 minute by pressing and holding both the **Spin** and **Soil Level** buttons simultaneously for approximately 3 seconds.

- If you pause the Child Lock mode temporarily, the door lock is released for 1 minute for user convenience. During this period, the "Child Lock [ ]" lamp blinks.
- If you open the door after the minute is over, an alarm sounds for up to 2 minutes.
- If you close the door within the 2 minutes, the door is locked and the Child Lock function is reactivated. If you close the door after the 2 minutes, the door is not locked automatically and no alarm sounds.

Deactivating the Child Lock function

Press and hold both the **Spin** and **Soil Level** buttons simultaneously for approximately 6 seconds.

- When you deactivate the Child Lock function, the door is unlocked and the "Child Lock [ ]" is turned off.

WARNING
- The Child Lock function prevents children or the infirm from accidently operating the washer and injuring themselves.
- If a child enters the washing machine, the child may become trapped and suffocate.

CAUTION
- Once you have activated the Child Lock function, it continues working even if the power is turned off.
- Opening the door by force can result in injury due to damage to the product.

To add laundry after you have activated the Child Lock function, you must first pause or deactivate the Child Lock function.

If you want to open the door of the washing machine when the Child Lock function is activated:

- Pause or deactivate the Child Lock function.
- Turn the washing machine off and then on again.

WF455AG-03159A_EN.indd Sec5:27 2012-04-13 11:59:23

Spin Only

If you press the **Power** button and then press and hold the **Spin** button for 2 seconds, the spin time will be displayed on the display panel.

Then, press the **Spin** button repeatedly until the required spin level is selected, and then press the **Start/Pause** button.

Before pressing the Spin Only button, you can select a cycle with the Cycle Selector. If you have selected a cycle, you can only select the corresponding spin level.

Drum Light

1. If the door is opened when the power is on, the Drum Light is automatically turned on.
2. If the door is closed when the power is on, the Drum Light is automatically turned off.
3. Press the **Temp.** and the **Spin** buttons simultaneously to turn the Drum Light on or off.
4. If 4 minutes have passed after the Drum Light is turned on, the Drum Light is automatically turned off.

Garment+

You can add or take out laundry items even after the wash has started, as long as the **"Garment+"** light is on. Pushing the **Start/Pause** button unlocks the door, unless the water is too hot or if there is too much water in your Washer. If you are able to unlock the door and wish to continue the wash cycle, close the door and press the **Start/Pause** button.

My cycle

Allows you to activate your custom wash (temperature, spin, soil level, etc.) with one–button convenience.

By pushing the **My Cycle** button, you activate the settings used during the **My Cycle** mode. The **"My Cycle"** light will indicate activation.

You can select all options as follows in **"My Cycle"** mode.

1. Select cycle using the **Cycle Selector** dial.
2. After cycle selection, set each option.

See page 56 for available option settings with each cycle.

3. Then, you can start **"My Cycle"** by pushing the **Start/Pause** button in **"My Cycle"** mode. The cycle and options you select will be displayed the next time you choose **"My Cycle"**.

You can change the **"My Cycle"** settings by repeating the same process above. The last used setting will be displayed the next time you choose **"My Cycle"**.

WF455AG-03159A_EN.indd Sec5:28 2012-04-13 11:59:23

Steam

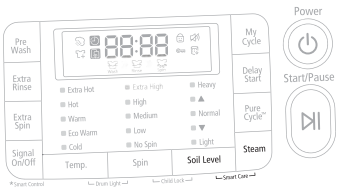
The Steam Wash function injects steam directly into the laundry in the wash tub to increase the wash temperature and enhance the soak effect, thus improving the wash performance.

1. Load the washer.
2. Press the **Power** button.
3. Turn the **Cycle Selector** and select a steam cycle. (The **Deep Steam** cycle automatically selects the Steam Wash function.)
4. Press the **Steam** button.
5. Add detergent into the dispenser tray for a wash, and add fabric softener up to the marked line.
6. Press the **Start/Pause** button.
   : The washer automatically selects the optimal wash conditions by sensing the weight of the laundry.

Steam may not necessarily be visible during the steam cycles.
Steam may not be present during entire steam wash cycle.

Smart Care

This function enables you to check the status of the washing machine using a smartphone.



1. To enable the Smart Care function, press and hold the **Soil Level** and **Steam** button for 3 seconds within 10 seconds after turning the power on by pressing the **Power** button.
2. If the Smart Care function is activated, the led on window display rotates for 2 or 3 seconds and then the Smart Care indicator is lit on the display.
3. Run the **Smart Care app** on your smart phone.
4. The Smart Care function is optimized with Galaxy S, Galaxy S2, iPhone 4 and iPhone 4S.
5. Focus your smart phone's camera on the display panel of the washing machine.
6. If the smart phone's camera is focused on the display panel of the washing machine, the result is automatically recognized and the error type and countermeasures are displayed on the smart phone.
7. If an error occurs more than twice, please manually enter the error code displayed on the display panel of the washing machine into the Smart Care app.

Downloading the Smart Care app

- Download the Samsung Smart Washer/Dryer App into your mobile phone from the Android market or Apple App store. (Search word : Samsung Smart Washer/Dryer)

Precautions when using Smart Care

- If a lighting device (e.g. fluorescent or lamp) is reflected on the display panel of the washing machine, the result on the display panel may not be recognized easily.
- If an error occurs more than twice, please manually enter the error code displayed on the display panel of the washing machine into the Smart Care app.
- If the angle of the smartphone camera and the display panel of the washing machine is incorrect, the error may not be recognized properly.
  Please try to hold the smart phone at an angle to the display panel as shown by the figure.

WF455AG-03159A_EN.indd Sec5:29 2012-04-13 11:59:23

washing a load of laundry

Washing clothes using the cycle selector

Your new washing machine makes washing clothes easy, using Samsung's "Fuzzy Control" automatic control system. When you select a wash program, the machine will set the correct temperature, washing time, and washing speed.

1. Press the **Power** button.
2. Open the door.
3. Load the articles of clothing one at a time loosely into the drum, without overfilling it.
4. Close the door.
5. Add detergent, softener, and pre-wash detergent (if necessary) into the appropriate compartments.

Pre-wash is only available when selecting the Normal, Perm Press, Sanitize, Bedding Plus, Deep Steam and Heavy Duty cycles. It is only necessary if your clothing is heavily soiled.

6. Use the Cycle Selector to select the appropriate cycle according to the type of material: Normal, Heavy Duty, Perm Press, Sanitize, Bedding Plus, Deep Steam, Eco Cold, Stain Away, Active Wear, Delicates/Hand Wash, Wool, Quick Wash, Rinse + Spin and Spin Only. The relevant indicators will illuminate on the control panel.
7. At this time, you can control the wash temperature, the number of rinse cycles, the spinning speed, and the delay time by pressing the appropriate option button.
8. Press the Start/Pause button on the Cycle Selector and the wash will begin. The process indicator will light up and the remaining time for the cycle will appear in the display.

Pause Option

1. Within 5 minutes of starting a wash, it is possible to add/remove laundry items to/from the wash.
2. Press the Start/Pause button to unlock the door.
3. The door cannot be opened when the water is too HOT or the water level is too HIGH.
4. After closing the door, press the Start/Pause button to restart the wash.

When the cycle is finished:

After the total cycle has finished, the power will turn off automatically.

1. Open the door.
2. Remove laundry.

WF455AG-03159A_EN.indd Sec5:30 2012-04-13 11:59:23

SETTING THE SMART CONTROL

Connect a wired/wireless sharer and the washer through a wireless connection, connect to www.samsungsmartappliance.com and register the washer to the Smart Control service.

This product does not contain a wireless router.

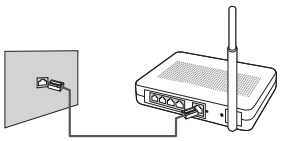
Configuring the wired/wireless sharer

- This product supports DHCP (Dynamic Host Configuration Protocol). Therefore, if a user wants to use an existing wired/wireless sharer, the sharer's DHCP server function must be enabled.
- Set the channel for the connection with the wired/wireless sharer to a channel that is not being used.
- The WEP, TKIP or TKIP AES encryption types are supported for wired/wireless sharers and other new Wi-Fi encryption types are not supported.
- The quality of the wireless network may be affected by the surrounding environment.
- If your Internet service provider has registered and fixed the MAC address (unique identification number of a device) of the user's PC or modem, you may not be able to connect the washer to the Internet. Please ask your Internet service provider about the procedures to connect a device (e.g. washer) other than a computer to the Internet. If your Internet service provider requires an ID and password to connect to the Internet, you may not be able to connect the washer to the Internet. In this case, you have to enter the ID and password to connect to the Internet.

  You may not be able to connect to the Internet due to a firewall. In this case, ask your Internet service provider for assistance.If you cannot connect the washer to the Internet even after contacting your Internet service provider, please contact a Samsung Electronics dealer or service center.

Check before installation

- For the procedures to install a normal wired/wireless sharer, refer to the user manual of the corresponding wired/wireless sharer.
- Samsung washers only support Wi-Fi 2.4Ghz.
- Samsung washers support IEEE 802.11 b/g/n and Wi-Fi Direct (IEEE802.11n is recommended).
- If the wired/wireless sharer is not Wi-Fi certified, it cannot be connected with the washer.

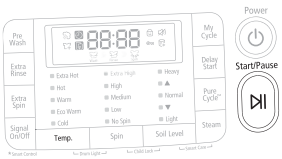


WF455AG-03159A_EN.indd Sec5:31 2012-04-13 11:59:23

Connecting to the network using the WPS setting

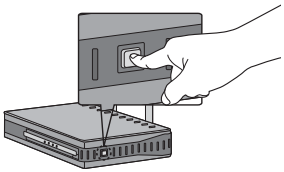
- Samsung washers use PBC as the WPS type. Check if the current wired/wireless sharer supports Wi-Fi Protected Setup™(WPS).
- Check if the wired/wireless share has a WPS button.

1. Press and hold both the **Temp.** and **Start/Pause** buttons for 5 seconds.
2. Turn the **Cycle Selector** until “UP” is displayed on the display panel and press the **Start/Pause** button.



If the connection is not established within 5 minutes, “FUP” is displayed on the display panel.

3. Press and hold the **WPS** button of the wired/wireless sharer that will be connected with the washer for 120 seconds or less to run the WPS function of the wired/wireless sharer. If the WPS function runs, the wired/wireless sharer automatically fetches the necessary information from the washer and the washer is automatically connected to the Internet through the wired/wireless sharer.

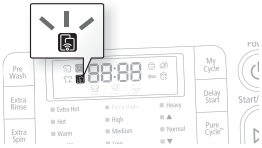


- How to use the WPS function of the wired/wireless sharer may differ depending on the manufacturer. Refer to the user manual of the corresponding wired/wireless sharer.
- Even after the WPS setup is complete, it may take some time until the actual connection is established to allocate an IP address through DHCP (up to 5 minutes).

CAUTION

- Note that if you use a wired/wireless sharer that is not WPS-certified, the washer may not be connected through Wi-Fi or a device that was connected to the wired/wireless sharer may be disconnected.
- Please note that for some wired/wireless sharers, if you press and hold the WPS button for some time, the settings of the sharer may be reset.

4. If the washer and the wired/wireless sharer are properly connected, the indicator blinks on the display panel for 30 seconds.
5. Press the **Smart Control** button to finish the Smart Control connection setup. When the setup is completed normally, the indicator blinks on the display panel with a beeping sound.



If you press the **Smart Control** button when the washer and the wired/wireless sharer are not properly connected, the invalid button sound is heard and the Smart Control connection setup is not completed.

WF455AG-03159A_EN.indd Sec5:32 2012-04-13 11:59:23

Connecting to the network using the AP setting

1. Press and hold the **Temp.** and **Start/Pause** buttons for 5 seconds.
2. The AP menu appears on the LED screen.
3. If the **Start/Pause** button is pressed after approximately 1 minute, the AP blinks.

   If the “AP” display does not blink.
   Since the Wi-Fi module is not ready, try again after a moment.
   (Approximately 1 minute is needed for the Wi-Fi module to get ready.)
4. Check if the SMARTWASHER is displayed in the list displayed in the mobile Wi-Fi setup screen. If it is in the list, perform step 5.
5. Launch the app, enter **Connection setup** and press the **Setting Start** button.
6. The app attempts to connect to the washing machine that has changed to AP mode.
7. When the connection is established, the AP list is displayed.
8. Select the AP and enter the password.
9. When the setting is completed.

   When the setting is successfully completed, “oAP” is displayed on the LED.
   When the setting is unsuccessfully completed, “FAP” is displayed on the LED.

WF455AG-03159A_EN.indd Sec5:33 2012-04-13 11:59:24

DOWNLOADING AND RUNNING THE MOBILE APP, SAMSUNG SMART WASHER/DRYER APP

Follow the procedure below to download and run the mobile app, **Samsung Smart Washer/Dryer App**.

1. Download the **Samsung Smart Washer/Dryer App** into your mobile phone from the Android market. You can skip this step if the app has been already downloaded into your mobile phone.

2. Tap the **Samsung Smart Washer/Dryer App** icon on your mobile phone to run the app.
   The initial screen is displayed.



3. The Home screen is displayed. It shows that your mobile phone is not yet connected to your washer.
4. Tap the **Indoor control** or **Outdoor control**.



WF455AG-03159A_EN.indd Sec5:34 2012-04-13 11:59:24

5. Tap your washer's name.
6. The progress screen is displayed while the **Samsung Smart Washer/Dryer App** tries to connect to your washer.

Connecting may take a minute or two.



7. When the connection is established, the screen shown at right appears.



WF455AG-03159A_EN.indd Sec5:35 2012-04-13 11:59:24

washing a load of laundry

USING THE MOBILE APP

After you washer has been connected, you can perform the following operations using the Samsung Smart Washer/Dryer App.

- Disconnect the connection
- Start a new wash (including receiving notifications and controlling your washer)

Disconnecting the connection

Follow the procedure below to disconnect the connection to your washer.

1. Tab the **Disconnect** button.



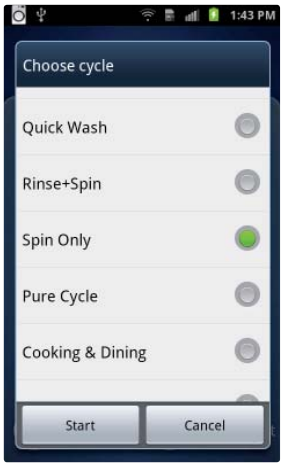
Starting a new wash

Follow the procedure below to start a new wash from your mobile app.

1. Tap the **Start new wash** button.
   The **Choose cycle** screen is displayed.

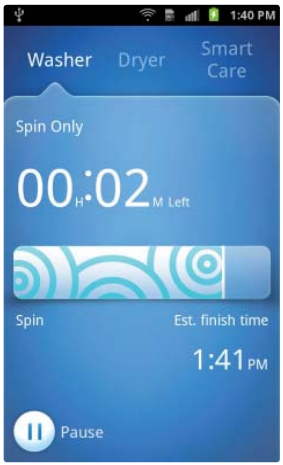
   In your washer, you must tap the **Smart Control** button in the **Cycle Selection** screen to turn on the Smart Control function.

2. Select the cycle you want, and then top the **Start** button.



WF455AG-03159A_EN.indd Sec5:36 2012-04-13 11:59:24

3. The cycle status including cycle progress and estimated finish time are shown on the screen.
   Tap the **Pause** button to pause the cycle.



4. When the cycle is completed, the message “Cycle complete” and a summary review of all the phases are shown.
5. Tap the **Dismiss** button to return to the **Home** screen.



WF455AG-03159A_EN.indd Sec5:37 2012-04-13 11:59:24

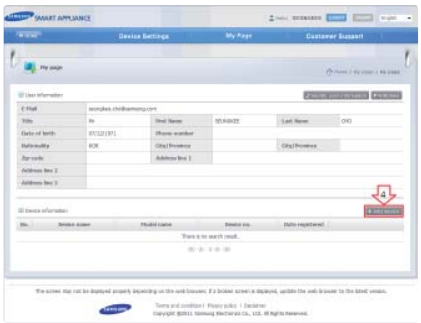
Registering your washer

1. Access **Samsung Smart appliance** website. (http://www.samsungsmartappliance.com)
2. Enter the User ID and Password to log in.

   If you don't have an account, press "**Create a Samsung account**" and fill in the form to become a member.
3. Select "**My page**" → "**My page**".

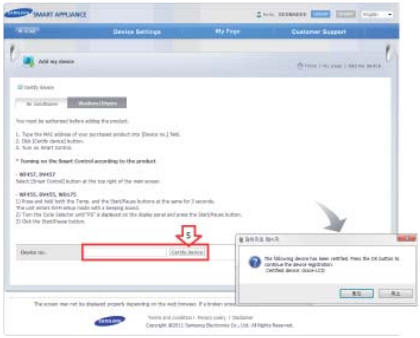


4. Select "**Add device**".



WF455AG-03159A_EN.indd Sec5:38 2012-04-13 11:59:24

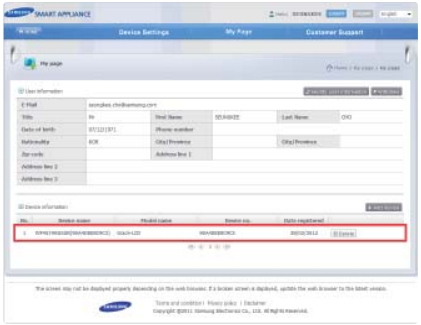
5. After entering the MAC written from following instruction.
   1) Press and hold both the **Temp.**, and **Start/Pause** buttons for 3 seconds.
   2) Turn the Cycle Selector until “Ad” is displayed on the display panel and press the **Start/Pause** button.
   3) Find out 12 Hexadecimal Address, pressing **Start/Pause** buttons for 2 digit & text.
6. Click the “**Certify device**”.
7. Press and hold both the **Temp.**, and **Start/Pause** buttons for 3 seconds.



8. Turn the Cycle Selector until **PS** is displayed on the display panel and press the **Start/Pause** button.
9. When certify device checking window comes on, click the “**Ok**”.
   - If the washer you are registering is already registered by other users, a window will come on asking whether you want to delete the usage authority of the existing users, or not.

---

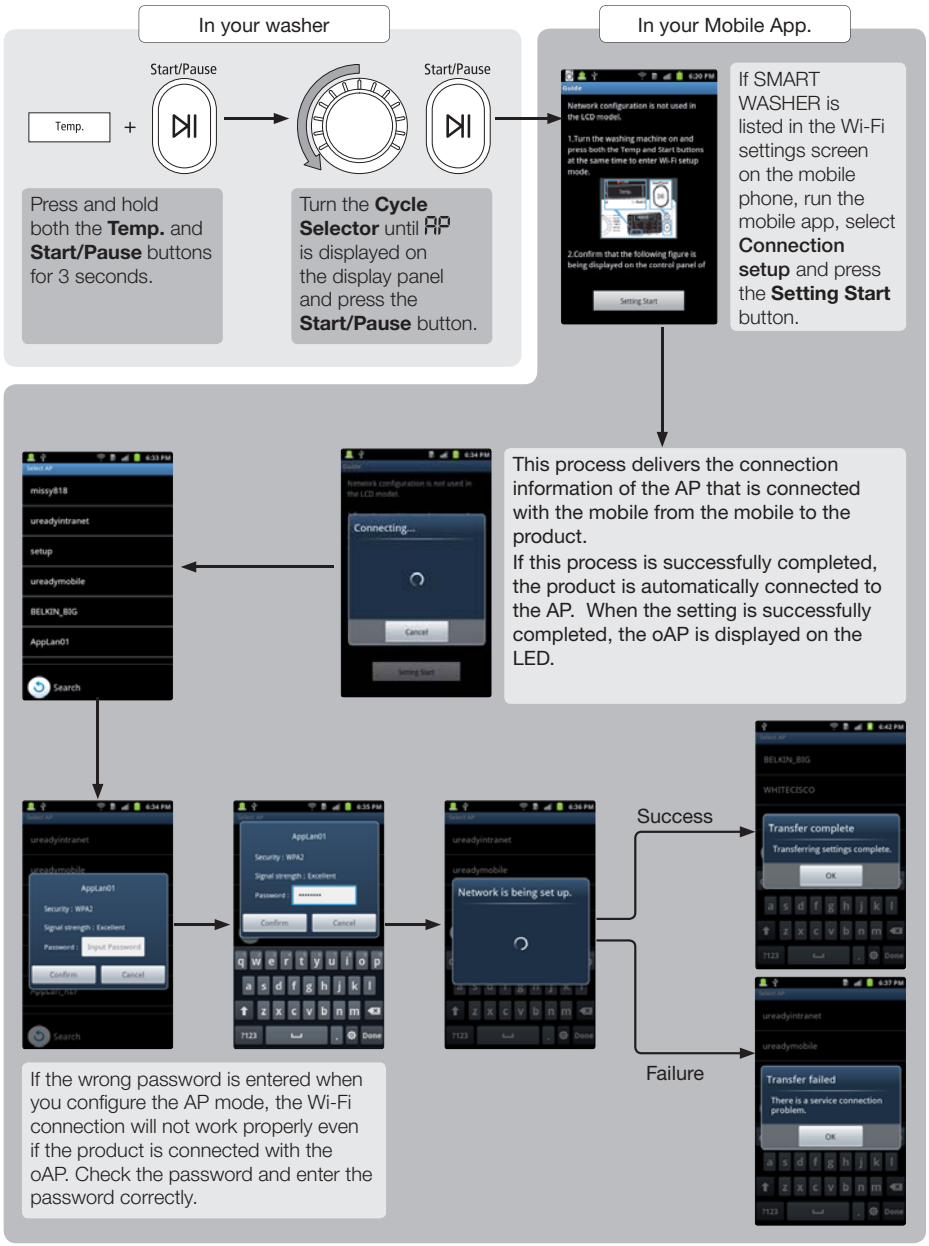
10. After the registration of the washer is completed, you can check the registered washer on the device information list.



WF455AG-03159A_EN.indd Sec5:39 2012-04-13 11:59:24

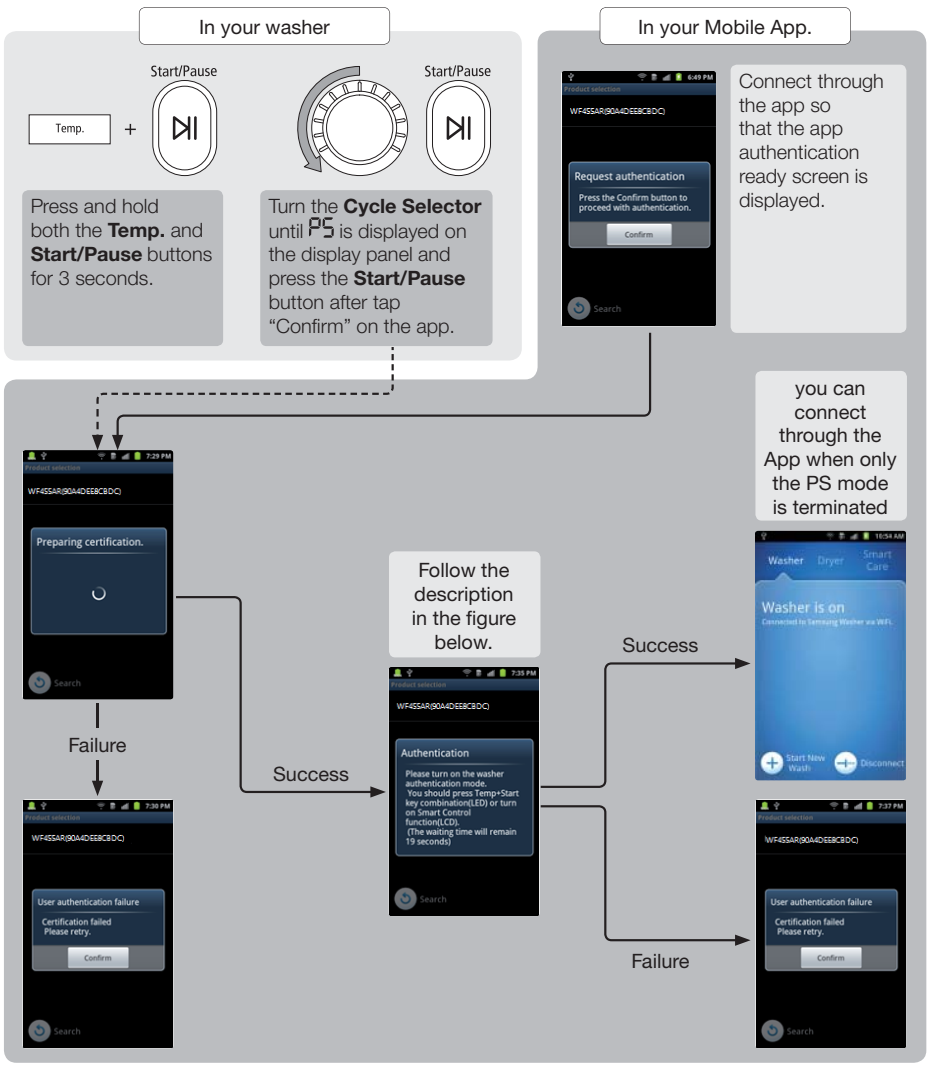
washing a load of laundry

QUICK GUIDE FOR WI-FI SETTING AND AP CONNECTING



WF455AG-03159A_EN.indd Sec5:40 2012-04-13 11:59:25

QUICK GUIDE FOR DEVICE CERTIFICATION



If the app has not yet connected to the product, authentication is required.

For the Wi-Fi module, it takes approximately 1 minute to boot up and get ready. Therefore,until the Wi-Fi module is ready, the Smart Control setting is not configured.

WF455AG-03159A_EN.indd Sec5:41 2012-04-13 11:59:25

washing a load of laundry

DETERGENT USE

Your Washer is designed to use high efficiency (HE) detergents.

- For best cleaning results, use a high efficiency detergents such as Tide HE, Wisk HE, Cheer HE or Gain HE*. High efficiency detergents contain suds suppressors that reduce or eliminate suds. When fewer suds are produced, the load tumbles more efficiently and cleaning is maximized.

WARNING Regular detergent is not recommended. Please use HE detergents only.

Reducing the amount of detergent may reduce the quality of cleaning. It is important to pre–treat stains, sort carefully by color and soil level, and avoid overloading.

* Brand names are trademarks of their respective manufacturers.

FEATURES

Automatic dispenser

Your Washer has separate compartments for dispensing detergent and color-safe bleach, chlorine bleach, and fabric softener. Add all laundry additives to their respective compartments before starting your Washer.

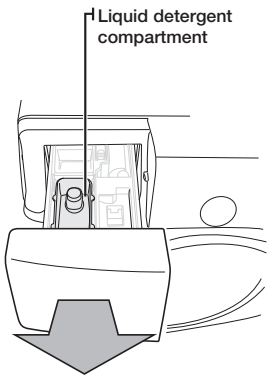
The automatic dispenser MUST ALWAYS be in place before starting your Washer.

DO NOT open the automatic dispenser when your washer is running.

To use:

- Never exceed the manufacturer's recommendations when adding detergent.
- This compartment holds liquid detergent for the main wash cycle, which is added to the load at the beginning of the cycle.

When using powdered detergent, remove the liquid detergent compartment from the detergent drawer. The washer will not dispense powdered detergent from the liquid detergent compartment.



Detergent compartment

1. Pour the recommended amount of laundry detergent directly into the detergent compartment before starting your Washer.
2. If you are using color-safe bleach, add it with the detergent to the detergent compartment.

When adding color-safe bleach with detergent, it is best if both laundry products are in the same form – granular or liquid.

WF455AG-03159A_EN.indd Sec5:42 2012-04-13 11:59:25

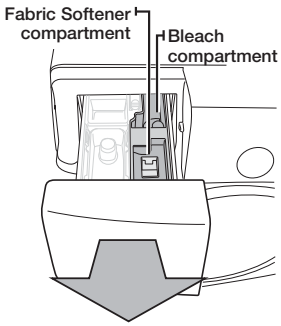
Pre wash compartment

When using the Pre Wash option, detergent should be added to both the Pre Wash compartment and the detergent compartment. The detergent will automatically be dispensed during Pre Wash.

- If high efficiency (HE) detergent is used, add 1/3 of the recommended amount to the Pre Wash compartment and 2/3 of the recommended amount to the detergent compartment.

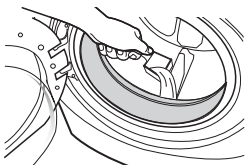
Bleach compartment

(Liquid chlorine bleach only)



1. Add chlorine bleach to the bleach compartment. DO NOT exceed the MAX FILL line.
2. Avoid splashing or over–filling the compartment.
3. Your Washer automatically dispenses bleach into the tub at the appropriate time.
4. The dispenser automatically dilutes liquid chlorine bleach before it reaches the wash load.

- Never pour undiluted liquid chlorine bleach directly onto the load or into the tub. It is a powerful chemical and can cause fabric damage, such as weakening of the fibers or color loss, if not used properly.
- If you prefer to use color–safe, non–chlorine bleach, add it to the appropriate detergent compartment. DO NOT pour color–safe bleach into the Bleach compartment.
- Oxi-type boosters or color-safe bleach can be added to the drum prior to adding laundry.
- Put the laundry into the drum only after confirming that the oxi-type boosters or color-safe bleach has completely entered the hole of the drum.



- However, to use powdered detergent and powder oxi-type boosters or powdered color-safe bleach at the same time, it is more effective putting them in together and removing the liquid detergent holder from the detergent compartment.

Fabric softener compartment

1. Pour the recommended amount of liquid fabric softener into the softener compartment. For smaller loads, use less than one capful.
2. Dilute the fabric softener with water until it reaches MAX FILL in the compartment.
3. The dispenser automatically releases liquid fabric softener at the proper time during the rinse cycle.

- Use the softener compartment ONLY for liquid fabric softeners.
- DO NOT use the Downy Ball* in the fabric softener compartment with this Washer. It will not add fabric softener at the appropriate time. Use the detergent Compartment.
- It is not recommended using liquid fabric softener that is too sticky as it may not mix with the water sufficiently.

* Brand names are trademarks of their respective manufacturers.

WF455AG-03159A_EN.indd Sec5:43 2012-04-13 11:59:26

maintaining your washer

CLEANING THE EXTERIOR

Turn off the water faucets after finishing the day's washing.

This will shut off the water supply to your Washer and prevent the unlikely possibility of damage from escaping water. Leave the door open to allow the inside of your Washer to dry out.

Use a soft cloth to wipe up all detergent, bleach or other spills as they occur.

Clean the following as recommended:

Control Panel – Clean with a soft, damp cloth. Do not use abrasive powders or cleaning pads. Do not spray cleaners directly on the panel.

Cabinet – Clean with soap and water.

CLEANING THE INTERIOR

Clean the interior of your Washer periodically to remove any dirt, soil, odor, mold, mildew, or bacterial residue that may remain in your Washer as a result of washing clothes.

Failure to follow these instructions may result in unpleasant conditions, including odors and/or permanent stains on your Washer or laundry.

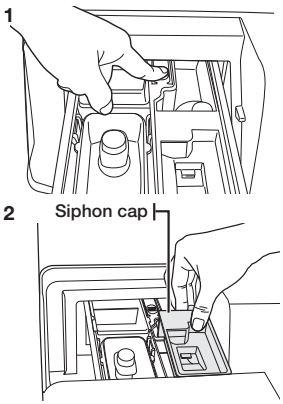
Hard water deposits may be removed, if needed. Use a cleaner labeled "Washer safe".

WF455AG-03159A_EN.indd Sec4:44 2012-04-13 11:59:26

CLEANING THE DISPENSERS

The automatic dispenser may need to be cleaned periodically due to laundry additive buildup.

1. Pull the detergent liquid holder out of the detergent compartment.
2. Remove the siphon cap from the fabric softener and bleach compartments.
3. Wash all of the parts under running water.
4. Clean the dispenser recess with a soft brush.
5. Reinsert the siphon cap and push it firmly into place.
6. Push the dispenser back into place.
7. Run a Rinse+Spin c ycle without any load in your washer.



STORING YOUR WASHER

Washers can be damaged if water is not removed from hoses and internal components before storage. Prepare your Washer for storage as follows:

- Select the Quick Wash cycle and add bleach to the automatic dispenser. Run your Washer through the cycle without a load.
- Turn the water faucets off and disconnect the inlet hoses.
- Unplug your Washer from the electrical outlet and leave your Washer door open to let air circulate inside the tumbler.
- If your Washer has been stored in below–freezing temperatures, allow time for any leftover water in your Washer to thaw out before use.

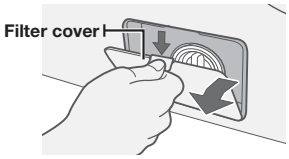
WF455AG-03159A_EN.indd Sec4:45 2012-04-13 11:59:26

maintaining your washer

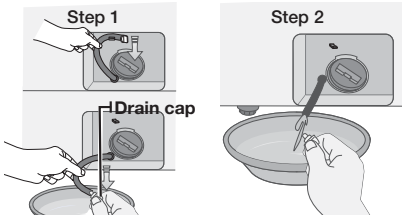
CLEANING THE DEBRIS FILTER

We recommend cleaning the debris filter when water does not drain well or the “nd” error message is displayed.

1. Open the filter cover by pressing and pulling the handle of the filter cover with your finger.



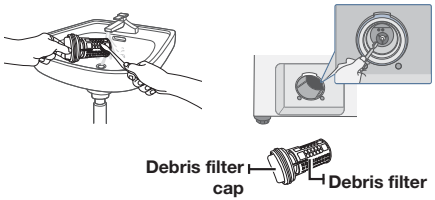
2. Holding the drain cap, pull the drain tube that is hooked on the guide hook to the front.Do not pull the drain tube with excessive force.
3. Place a bowl under the washing machine to catch any remaining water. Then, hold the drain tube with one hand, and turn the emergency drain cap counter clockwise with the other hand to separate it from the drain tube.
4. Drain the remaining water completely.



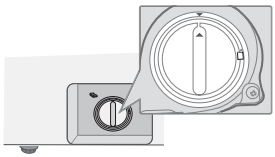
5. Pull out the debris cap and debris filter assembly.



6. Wash any dirt or other material from the debris filter. Make sure the drain pump propeller behind the debris filter is not blocked.



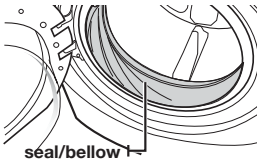
7. When you have finished cleaning the filter, insert the debris cap and filter assembly back into the washer. Turn the debris filter cap clockwise until the indicator on the debris filter cap is in the 12 o’clock position, pointing to the indicator on the washer.
8. Re-attach the emergency drain cap to the drain tube, and then hook the tube to the hook guide.
9. Re-install the filter cover the filter cover.



WF455AG-03159A_EN.indd Sec4:46 2012-04-13 11:59:26

CLEANING THE DOOR SEAL/BELLOW

1. Open the washer door and remove any clothing or items from the washer.
2. Inspect the gray colored seal/bellow between the door opening and the basket for stained areas. Pull back the seal/bellow to inspect all areas under the seal/bellow and to check for foreign objects.



3. If stained areas are found, wipe down these areas of the seal/bellow, using the procedure that follows.
   - **a)** Mix a dilute solution, using ¾ cup (177 mL) of liquid chlorine bleach, and 1 gal. (3.8 L) of warm tap water.
   - **b)** Wipe the seal/bellow area with the dilute solution, using a damp cloth.
   - **c)** Let stand 5 minutes.
   - **d)** Wipe down area thoroughly with a dry cloth and let the washer interior air dry with door open.

IMPORTANT:
- Wear rubber gloves when cleaning for prolonged periods.
- Refer to the bleach manufacturer's instructions for proper use.

PRESERVING THE TOP COVER AND THE FRONT FRAME

Do not place any heavy or sharp objects or a detergent box on the washing machine. Keep them on the purchased pedestal or in a separate storage box. This may scratch or damage the top cover of the washing machine.

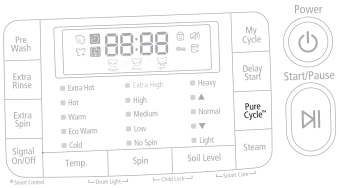
Since the entire washing machine has a high-gloss finish, the surface can be scratched or damaged. Therefore, avoid scratching or damaging the surface when using the washing machine.

WF455AG-03159A_EN.indd Sec4:47 2012-04-13 11:59:27

PURE CYCLE™

Pure Cycle is a self-cleaning cycle that removes mold that may occur inside the washing machine.

1. Press the **Power** button.
2. Press the **Pure Cycle™** button.
   - Once the Pure Cycle button is pressed, the only function that can be set is Delay Start.
3. Press the **Start/Pause** button.
   - If you press the Start/Pause button, Pure Cycle begins.

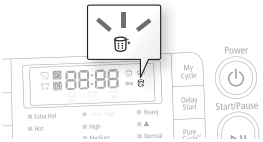


CAUTION

- Using Pure Cycle, you can clean the drum without using a cleansing agent.
- Never use Pure Cycle when laundry is in the washing machine. This may cause damage to the laundry or a problem with the washing machine.
- **If you want to use drum cleansing agent, use only 1/10 of the amount of the drum cleansing agent recommended by the cleansing agent manufacturer.** (When using a powder-type cleansing agent , remove the liquid detergent compartment.)

The Pure Cycle Auto Indicator Function

- If the "**Pure Cycle**" button is lit after a wash, it indicates that tub (drum) cleaning is required. In this case, remove the laundry from the washing machine, turn the power on, and clean the drum by running Pure Cycle.
- If you do not run Pure Cycle, the "**Pure Cycle**" indicator turns off. However, the "**Pure Cycl**e" indicator will light again after two washes. Not running Pure Cycle at this point will not cause a problem with the washing machine.
- Although the Pure Cycle Auto Indicator appears once a month or so, the frequency may differ depending on the number of times the washing machine is used.



WF455AG-03159A_EN.indd Sec4:48 2012-04-13 11:59:27

troubleshooting

CHECK THESE POINTS IF YOUR WASHER...

PROBLEM	SOLUTION
Will not start..	• Make sure the door is firmly closed. • Make sure your Washer is plugged in. • Make sure the water source faucets are open. • Make sure to press the Start/Pause Button to start your Washer. • Make sure Child Lock is not activated; see page 27. • Before your Washer starts to fill, it will make a series of clicking noises to check the door lock and do a quick drain. • Check the fuse or reset the circuit breaker
Has no water or not enough water..	• Turn both faucets on fully. • Make sure the door is tightly closed. • Straighten the water inlet hoses. • Disconnect hoses and clean screens. Hose filter screens may be clogged. • Open and close the door, then press the Start/Pause Button.
Has detergent remaining in the automatic dispenser after the wash cycle is complete.	• Make sure your Washer is running with sufficient water pressure. • Make sure the Detergent Selector dial is in the upper position when using granular detergent.
Vibrates or is too noisy.	• Make sure your Washer is set on a level surface. If the surface is not level, adjust your Washer feet to level the appliance. • Make sure that the shipping bolts are removed. • Make sure your Washer is not touching any other object. • Make sure the laundry load is balanced.
Stops	• Plug the power cord into a live electrical outlet. • Check the fuse or reset the circuit breaker. • Close the door and press the Start/Pause Button to start your Washer. For your safety, your Washer will not tumble or spin unless the door is closed. • Before your Washer starts to fill, it will make a series of clicking noises to check the door lock and do a quick drain. • There may be a pause or soak period in the cycle. Wait briefly and it may start. • Check the screens on the inlet hoses at the faucets for obstructions. Clean the screens periodically.

WF455AG-03159A_EN.indd Sec7:49 2012-04-13 11:59:27

troubleshooting

PROBLEM	SOLUTION
Fills with the wrong temperature water.	• Turn both faucets on fully. • Make sure the temperature selection is correct. • Make sure the hoses are connected to the correct faucets. Flush water lines. • Check the water heater. It should be set to deliver a minimum 120° F (49° C) hot water at the tap. Also check the water heater capacity and recovery rate. • Disconnect the hoses and clean the screens. The hose filter screens may be plugged. • As your Washer is filling, the water temperature may change as the automatic temperature control feature checks incoming water temperature. This is normal. • While your Washer is filling, you may notice just hot and/or just cold water going through the dispenser when cold or warm wash temperatures are selected. This is a normal function of the automatic temperature control feature as your Washer determines the temperature of the water.
Door locked or will not open.	• Press the Start/Pause Button to stop your Washer. • Your Washer door will remain locked during the heating portion of the Sanitize Cycle • It may take a few moments for the door lock mechanism to disengage.
Does not drain and/or spin.	• Check the fuse or reset the circuit breaker. • Straighten the drain hoses. Eliminate kinked hoses. If there is a drain restriction, call for service. • Close the door and press the Start/Pause Button. For your safety, your Washer will not tumble or spin unless the door is closed. • Make sure the debris filter is not clogged.
Load is too wet at the end of the cycle.	• Use the High or Extra High spin speed. • Use high efficiency detergent to reduce over–sudsing. • Load is too small. Very small loads (one or two items) may become unbalanced and not spin out completely.
Leaks water.	• Make sure the door is firmly closed. • Make sure all hose connections are tight. • Make sure the end of the drain hose is correctly inserted and secured to the drainage system. • Avoid overloading. • Use high efficiency detergent to prevent over–sudsing.
Has excessive suds.	• Use high efficiency detergent to prevent over-sudsing. • Reduce the detergent amount for soft water, small or lightly soiled loads. • Non-HE detergent is NOT recommended.

WF455AG-03159A_EN.indd Sec7:50 2012-04-13 11:59:27

INFORMATION CODES

Information codes may be displayed to help you better understand what is occurring with your washer.

ERROR CODE	MEANING & SOLUTION
dc	An unbalanced load that prevents your washer from spinning. Redistribute the load, press the Start/Pause button.
dS	The door is open when the washer is running. Close the door tightly and restart the cycle. If the code reappears, call customer service.
FL	Your washer failed to lock the door. Close the door tightly and restart the cycle. If the code reappears, call customer service.
Hr	A water temperature control problem. (Heater control problem) Call customer service.
LE	Your washer has tried to fill, but has not reached the proper water level. Call customer service.
LO	The door will not unlock. Make sure the door is firmly closed. Press the Power button to turn off your washer, then turn it on again. If the code reappears, call customer service.
nd	Your washer is not draining. This can also mean that the unit senses a small clog while draining. **1.** Turn off the unit for 10 seconds and then turn it on again. **2.** Select the Spin Only cycle. **3.** Press the Start/Pause to drain the water. If it still does not drain, call for service.
nF	Your washer has tried to fill but was unsuccessful. Make sure the water faucets are open all the way. Check for bent hoses. Check the inlet screens on the hoses. If you are using a Flood Safety Device, please remove the device and connect the water hoses directly to the unit. Check if the hot water supply hose is connected. You must connect the hot water supply hose because hot water is supplied by the Auto Temperature Control (A.T.C.) function if the temperature of the cold water is lower than 59°F.
nF1	The hot/cold water hose connection is not correct. Please connect the hot/cold water hose connection correctly.
OE	A fault is detected in the water level sensor. Call customer service.
1E	The Water Level sensor is not working properly. Call customer service.
E2	A jammed key. Call customer service.

WF455AG-03159A_EN.indd Sec7:51 2012-04-13 11:59:27

troubleshooting

ERROR CODE	MEANING & SOLUTION
tE	A temperature sensor problem. Restart the cycle. If the code reappears, call customer service.
3E	A motor problem. Restart the cycle. If the code reappears, call customer service.
2E	High/Low voltage detected. Restart the cycle. If the code reappears, call customer service.
AE	A Communication error between the SUB(Sensor) PBA and the MAIN PBA Call customer service.
AE4	A Communication error between the WIFI PBA and the MAIN PBA Call customer service.
AE3	A Communication error between the DR Module and the MAIN PBA Call customer service.
AE5	A Communication error between the LCD PBA and the MAIN PBA Call customer service.
8E	A MEMS sensor problem. Call customer service.
SF1 SF2 SF3	A system error Call customer service.
SUdS	Too many suds are detected during the wash session. The unit is put on hold until the amount of suds have been reduced. The unit will then go back to operating. When it finishes washing, the “End” and “SUdS” codes will blink in turn.

For any codes not listed above, call 1–800–726–7864 (1–800–SAMSUNG)

WF455AG-03159A_EN.indd Sec7:52 2012-04-13 11:59:27

NETWORK SETUP Q&A

QUESTION	ANSWER
The washer or dryer is not found in the smartphone app.	• Check the power status of the AP. • Check if the smartphone is connected with Wi-Fi. • Check if the Wi-Fi function of the washer or dryer is turned on. • To refresh the screen, press “Configure” again. • If the AP is installed too far away from the washer or dryer, the strength of the Wi-Fi signal may weak. In this case, move the AP closer to the washer or dryer.
The AP is not found on the washer or dryer.	• Check the power status of the AP. • Check if the Wi-Fi function of the washer or dryer is turned on. • To refresh the screen, press “Configure” again. • If the AP is installed too far away from the washer or dryer, the strength of the Wi-Fi signal may weak. In this case, move the AP closer to the washer or dryer. Ensure that the number of the displayed antenna bars are at least 3. • Since if the performance of the AP is low, it may not be found by the washer or dryer, use high performance AP if available.
There are more than one washer or dryer in the house. Do I have to install an AP for each of them?	• You can install only one AP. • I you want to one AP for each of the washer and dryer, select the corresponding AP for each of the products in the “Smart Washer” app. • When both washer and dryer are installed, they can be controlled through one AP.
Which AP is better?	• Since the washer or dryer is controlled through the AP from the inside or outside of the house, high performance AP is recommended. • Use an AP with Wi-Fi certification mark. • Since an AP with 2 or more antennas provides better performance, purchse and use the AP.
How can I check if the AP is out of order?	• Connect to the AP on a smartphone and check if you can connect to the Internet. If you can connect to the Internet, the AP is normal. • Check if the LED of the AP is blinking. If all the LEDs are turned off, it indicates that the power is turned off. • If the AP doesn’t seem to be working properly, request after-sales service.
The customer does not have a PC. Can the customer can use the indoor and outdoor control feature?	• If the Internet can be accessed inside of the house, the feature is available. However, you have to sign up the web site and resgister the product.
How many users can control a washer or dryer?	• Only if the “Smart Washer” app is authenticated, multiple users can control the washer or dryer.

WF455AG-03159A_EN.indd Sec7:53 2012-04-13 11:59:27

troubleshooting

QUESTION	ANSWER
Where are the proper place to install a washer or dryer?	• Since a washer or dryer is heavy and connected with water, it should be installed in the proper place. Installing the AP near the washer or dryer is recommended. You can check the signal strength through the setup screen of the washer or dryer or a smartphone. • Since the performance is seriously affected by a door or steel wall, install the product in an open place. If there is door in front of the installed product, open the door when using the product. • Do not place an object maden with steel or glass in front of the front LCD of the washer since it blocks the radio signal. • Note that the radio signal may be weaken or interfered and the communication with the smartphone may fail when a microwave oven is used in the house. • Install the washer or dryer so that the front of the product faces the AP if available.
How can I connect the washer or dryer with a smartphone stably?	• When the signal strenth that is displayed on the LCE of the washer or dryer is weak, the control may fail. Check the mark as follows or measure the signal strength. • At least 3 antenna bars should be displayed on the LCD of the washer or dryer. • At least 3 antenna bars for the Wi-Fi connection should be displayed on the smartphone. • When the signal strenth is measured with a smartphone app that shows the Wi-Fi signal strength, the signal strength should be stronger than -65 dBm. (E.g. -60 dBm and -50 dBm are stronger than -65 dBm.)
What should I have to do when the number of the antenna bars that are displayed on the LCD of the washer or dryer is 1?	• When the signal strenth that is displayed on the LCE of the washer or dryer is weak, the control may fail. In this case, take the following measures for normal operation. • Move the AP closer to the washer or dryer. (At least 3 antenna bars should be dislayed in the network setup of the washer for proper operation.) • Since old AP may provide lower performance, use new one if available. • Stand the antenna of the AP if available so that the radio signal is more easily propagated.

WF455AG-03159A_EN.indd Sec7:54 2012-04-13 11:59:27

FABRIC CARE CHART

The following symbols provide garment care direction. The Clothing care labels include symbols for washing, bleaching, drying and ironing, or dry cleaning when necessary. The use of symbols ensures consistency among garment manufacturers of domestic and imported items. Follow care label directions to maximize garment life and reduce laundering problems.

Wash Cycle		Special Instructions		Warning Symbols for Laundering	
	Normal		Line Dry/ Hang to Dry		Do Not Wash
	Permanent Press / Wrinkle Resistant / Wrinkle Control		Drip Dry		Do Not Wring
	Gentle/Delicates		Dry Flat		Do Not Bleach
	Hand Wash	**Heat Setting**			Do Not Tumble Dry
Water Temperature**			High		No Steam (added to iron)
●●●	Hot		Medium		Do Not Iron
●●	Warm		Low	**Dryclean**	
●	Cold		Any Heat		Dry Clean
Bleach			No Heat/Air		Do Not Dry Clean
	Any Bleach (when needed)	**Iron-Dry or Steam Temperatures**			Line Dry/ Hang to Dry
	Only Non-Chlorine (color-safe) Bleach (when needed)		High		Drip Dry
	Tumble Dry Cycle		Medium		Dry Flat
Normal			Low		For machine-washable wool. Loads should be under 8 pounds.
	Permanent Press/ Wrinkle Resistant/ Wrinkle Control				
	Gentle/ Delicates				

** The dot symbols represent appropriate wash water temperatures for various items. The temperature range for Hot is 105° - 125° F/ 41° - 52°C, for Warm 85° - 105° F/29° - 41° C and for Cold 60° - 85° F/16° - 29° C. (Wash water temperature must be a minimum of 60° F/16°C for detergent activation and effective cleaning.) The clothes Washer may not ensure these temperatures because the actual water temperatures entering your Washer are dependent on water heater settings and regional water supply temperatures. For example, cold water entering the home in the northern states during winter may be 40° F/4° C which is too cold for effective cleaning. The water temperature in this situation will need to be adjusted by selecting a warm setting, adding some hot water to the MAX FILL line or using your Washer's heating option, if available.

WF455AG-03159A_EN.indd Sec8:55 2012-04-13 11:59:27

appendix

CYCLE CHART

Use this chart to set the best cycle and option for you laundry.

(●: Factory setting, O: Selectable, x: Not available)

Course	Functions									
	Temp.					Spin				
	Extra Hot	Hot	Warm	Eco Warm	Cold	Extra High	High	Medium	Low	No Spin
Normal	X	O	●	O	O	O	●	O	O	O
Heavyduty	X	●	O	O	O	●	O	O	O	O
Perm Press	X	X	●	O	O	X	O	O	●	O
Sanitize	●	X	X	X	X	●	O	O	O	O
Bedding Plus	X	X	●	O	O	X	X	O	●	O
Deep Steam	X	●	X	X	X	O	●	O	O	O
Rinse + Spin	X	X	X	X	●	O	●	O	O	O
Spin only	X	X	X	X	X	O	●	O	O	O
Quick Wash	X	O	●	O	O	O	●	O	O	O
Wool	X	X	●	O	O	X	X	X	●	O
Delicates/Hand wash	X	X	O	O	●	X	X	X	●	O
Stain Away	X	O	●	O	O	O	●	O	O	O
Active Wear	X	X	●	O	O	X	X	O	●	O
eco Cold	X	X	X	X	●	O	●	O	O	O
Pure Cycle	●	X	X	X	X	X	X	X	●	X

WF455AG-03159A_EN.indd Sec8:56 2012-04-13 11:59:28

CYCLE CHART

Use this chart to set the best cycle and option for you laundry.

(●: Factory setting, O: Selectable, x: Not available)

Course	Functions					Options					
	Soil Level					Extra Rinse	Extra Spin	My Cycle	Pre Wash	Delay Start	Steam
	Extra Heavy (Heavy)	Heavy (▲)	Normal	Light (▼)	Extra Light (Light)						
Normal	O	O	●	O	O	O	O	O	O	O	O
Heavyduty	●	O	O	O	O	O	O	O	●	O	O
Perm Press	O	O	●	O	O	O	O	O	O	O	X
Sanitize	O	O	●	O	O	O	O	O	O	O	O
Bedding Plus	O	O	●	O	O	O	O	O	O	O	O
Deep Steam	●	X	X	X	X	O	O	O	O	O	●
Rinse + Spin						O	O	O	X	O	X
Spin only						X	O	O	X	O	X
Quick Wash	O	O	O	O	●	O	X	O	X	O	X
Wool	X	X	●	X	X	X	X	O	X	O	X
Delicates/Hand wash	O	O	●	O	O	O	X	O	X	O	X
Stain Away	●	O	O	O	O	O	O	O	O	O	O
Active Wear	O	O	●	O	O	O	O	O	O	O	X
eco Cold	X	X	●	O	O	O	O	O	O	O	X
Pure Cycle						X	X	O	X	O	X

WF455AG-03159A_EN.indd Sec8:57 2012-04-13 11:59:28

appendix

HELPING THE ENVIRONMENT

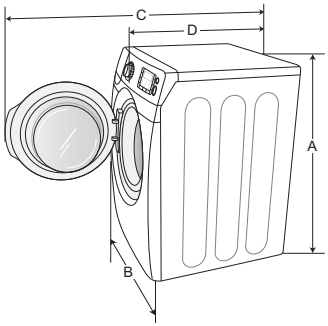
- Your Washer is manufactured from recyclable materials. If you decide to dispose of it, please observe local waste disposal regulations. Cut off the power cord so that the appliance cannot be connected to a power source. Remove the door so that animals and small children cannot get trapped inside the appliance.
- Do not exceed the detergent quantities recommended in the detergent manufacturers' instructions.
- Use stain removal products and bleaches before the wash cycle only when necessary.
- Save water and electricity by only washing full loads (the exact amount depends upon the program used).

DECLARATION OF CONFORMITY

This appliance complies with UL2157.

SPECIFICATION

TYPE	FRONT LOADING WASHER		
DIMENSIONS	Div	Inches (mm)	
	A. Height-Overall	38.7" (984)	
	B. Width	27" (686)	
	C. Depth with door open 90°	51.2"(1300)	
	D. Depth	34.1"(865)	



WATER PRESSURE		20-116psi(137-800kPa)	
WEIGHT		105kg (231.5lb)	
HEATER RATING		900 W	
POWER CONSUMPTION	WASHING	120 V	200 W
	WASHING AND HEATING	120 V	1150 W
	SPIN	120 V	550 W
	DRAIN	120 V	80 W
SPIN REVOLUTION	WF455ARG***	1300 rpm	

WF455AG-03159A_EN.indd Sec8:58 2012-04-13 11:59:28

OPEN SOURCE ANNOUNCEMENT

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to:

oss.request@samsung.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution may be charged.
This offer is valid to anyone in receipt of this information.

GPL Software:
Bridge-Utils, BusyBox, DNRD, dosfstools, iproute2, IPTables, Linux Kernel, ntpclient, Open1x, RSDK toolchain, rtl819x - Bootloader, samba, squashfs, udhcp Server-Client Package, USB-ModeSwitch, wireless-tools

LGPL Software:
libnl-Netlink Library, Mini-XML

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.)

You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any

WF455AG-03159A_EN.indd Sec8:59 2012-04-13 11:59:28

problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

1. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

2. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

3. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
2) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
3) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written

WF455AG-03159A_EN.indd Sec8:60 2012-04-13 11:59:28

entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

4. 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

1) Accompany it with the complete corresponding machinereadable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
2) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or, c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source

along with the object code.

5. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

6. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

7. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

8. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then

WF455AG-03159A_EN.indd Sec8:61 2012-04-13 11:59:28

as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

9. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

10. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

11. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

12. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

13. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOV E , BE L I ABL E TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO

WF455AG-03159A_EN.indd Sec8:62 2012-04-13 11:59:28

OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program. You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is

WF455AG-03159A_EN.indd Sec8:63 2012-04-13 11:59:28

not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into nonfree programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries.

However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free

WF455AG-03159A_EN.indd Sec8:64 2012-04-13 11:59:28

programs must be allowed to use the library.

A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in nonfree programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

1. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it).

Whether that is true depends on what the Library does and what the program that uses the Library does.

2. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

3. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1) The modified work must itself be a software library.

2) You must cause the files modified to carry prominent notices stating that you changed

WF455AG-03159A_EN.indd Sec8:65 2012-04-13 11:59:28

the files and the date of any change.

3) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

4) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library. In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

4. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

5. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

6. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a “work that uses the Library” uses material from a header file that is part of the

WF455AG-03159A_EN.indd Sec8:66 2012-04-13 11:59:28

Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

7. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

1) Accompany the work wi th the complet e corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
2) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interfacecompatible with the version that the work was made with.
3) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
4) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
5) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

8. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library

WF455AG-03159A_EN.indd Sec8:67 2012-04-13 11:59:28

and of the other library facilities is otherwise permitted, and provided that you do these two things:

1) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
2) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

9. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

10. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

11. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

12. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices.

Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

13. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

14. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the

WF455AG-03159A_EN.indd Sec8:68 2012-04-13 11:59:28

present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.

If the Library specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

15. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

16. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

17. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRI T ING WI L L ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

one line to give the library’s name and an idea of what it does.

Copyright (C) year name of author

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

WF455AG-03159A_EN.indd Sec8:69 2012-04-13 11:59:28

Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names: Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

BSD LICENSE

flex: the fast lexical analyser
Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007
The Flex Project.
Copyright (c) 1990, 1997 The Regents of the University of California. All rights reserved.
LibNet License
Copyright (c) 1998 - 2001 Mike D. Schiffman <mike@infonexus.com>
PPP/ Debian
Copyright (c) 1989 Regents of the University of California. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the <organization> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

WF455AG-03159A_EN.indd Sec8:70 2012-04-13 11:59:28

OPENSSL

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)

LICENSE ISSUES

==========

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

==========

Copyright (c) 1998-2008 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment: “This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)”
4. The names “OpenSSL Toolkit” and “OpenSSL Project” must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called “OpenSSL” nor may “OpenSSL” appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment:
   “This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)”

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT “AS IS” AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

WF455AG-03159A_EN.indd Sec8:71 2012-04-13 11:59:28

warranty (U.S.A)

WARRANTY

SAMSUNG WASHER

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) year part and labor, Two (2) years Control Board Parts, Three (3) years stainless tub part, Ten (10) years washing motor part

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. SAMSUNG will provide in-home service during the warranty period at no charge, subject to availability within the contiguous United States. In-home service is not available in all areas.

To receive in-home service, product must be unobstructed and accessible to the service agent. If service is not available, SAMSUNG may elect to provide transportation of the product to and from an authorized service center.

SAMSUNG will repair, replace, or refund this product at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following: damage that occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning, or other acts of nature or God; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG that damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal and reinstallation; problems caused by pest infestations. This limited warranty does not cover problems resulting from incorrect electric current, voltage or supply, light bulbs, house fuses, house wiring, cost of a service call for instructions, or fixing installation errors. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

WF455AG-03159A_EN.indd Sec10:72 2012-04-13 11:59:28

EXCEPT AS SET FORTH HEREIN, THERE ARE NO WARRANTIES ON THIS PRODUCT EITHER EXPRESS OR IMPLIED, AND SAMSUNG DISCLAIMS ALL WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE.

NO WARRANTY OR GUARANTEE GIVEN BY ANY PERSON, FIRM, OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE, OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE AND STATES YOUR EXCLUSIVE REMEDY.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

To obtain warranty service, please contact SAMSUNG at:

SAMSUNG ELECTRONICS AMERICA, INC.

85 CHALLENGER ROAD RIDGEFIELD PARK, NJ 07660

1-800-SAMSUNG(726-7864)

www.samsung.com

WF455AG-03159A_EN.indd Sec10:73 2012-04-13 11:59:28

warranty(CANADA)

SAMSUNG WASHER

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS CANADA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) year part and labor, Ten (10) years washing motor part

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the Canada. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. SAMSUNG will provide in-home service during the warranty period at no charge, subject to availability within the Canada. In-home service is not available in all areas.

To receive in-home service, product must be unobstructed and accessible to the service agent. If service is not available, SAMSUNG may elect to provide transportation of the product to and from an authorized service center.

SAMSUNG will repair, replace, or refund this product at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following: damage that occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning, or other acts of nature or God; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG that damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal and reinstallation; problems caused by pest infestations. This limited warranty does not cover problems resulting from incorrect electric current, voltage or supply, light bulbs, house fuses, house wiring, cost of a service call for instructions, or fixing installation errors. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

WF455AG-03159A_EN.indd Sec10:74 2012-04-13 11:59:29

EXCEPT AS SET FORTH HEREIN, THERE ARE NO WARRANTIES ON THIS PRODUCT EITHER EXPRESS OR IMPLIED, AND SAMSUNG DISCLAIMS ALL WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE.

NO WARRANTY OR GUARANTEE GIVEN BY ANY PERSON, FIRM, OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE, OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE AND STATES YOUR EXCLUSIVE REMEDY.

Some provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from province to province.

To obtain warranty service, please contact SAMSUNG at:

Samsung Electronics Canada Inc.,

Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada

1-800-SAMSUNG (726-7864)

www.samsung.com/ca

www.samsung.com/ca_fr (French)

WF455AG-03159A_EN.indd Sec10:75 2012-04-13 11:59:29

SAMSUNG

Scan this with your smartphone

Scan the QR code* or visit
www.samsung.com/spsn
to view our helpful
How-to Videos and Live Shows

*Requires reader to be installed on your smartphone

QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca www.samsung.com/ca_fr (French)

Code No. DC68-03159A-01 _EN

DV455*

Gas and Electric Dryer

user manual

Planet First 100% Recycled Paper

This manual is made with 100% recycled paper.

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service or accessory parts, please register your product at or contact

www.samsung.com/register

1-800-SAMSUNG (726-7864)

SAMSUNG

DV455-02836F-02_EN_20120625.indd 1 2012-06-25 □□ 5:20:16

Features

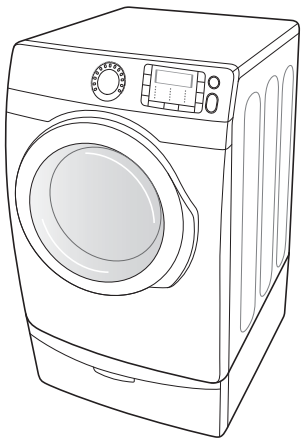
- **Extra Large Capacity**
  Ultra drying capabilities are at your fingertips! Now you can dry extra-large loads. Our ultra large 7.5 cu.ft. capacity dryer circulates more air through your clothes, drying them faster, for a wrinkle-free result.
- **Smart Control (Elec. Model Only)**
  Samsung's innovative Smart Control technology enables you to control your dryer through personal technology devices such as smart phones. You don't have to be on standby until the cycle ends. The Smart Control allows you to monitor the drying process and lets you know when the cycle is complete.
- **Smart Monitor (Gas Model Only)**
  Samsung's innovative Smart Monitor technology enables you to monitor your dryer through personal technologies such as smart phones. You don't have to be on standby until the cycle ends. Smart Monitor allows you to monitor the drying process and let you know when the cycle is complete.
- **Smart Care**
  Samsung's Smart Care, an automatic error-monitoring system, detects and diagnoses problems at an early stage and provides a quick and easy solution. With the innovative Smart Remote Control technology, you can also be alerted when the problem occurs via your smart phones.
- **Steam Cycle**
  This cycle sprays a small amount of water into the drum of the dryer after several minutes of tumbling with heat. It reduces bad odors from clothing that are difficult to remove when washing with water, and also reduces wrinkles.
- **Sanitize Cycle**
  This cycle sanitizes garments by infusing high temperature heat deep into the fabric during the drying cycle and eliminating 99.9% of certain bacteria. Use this cycle for clothing, bedding, towels, or other items needing sanitization. The Sanitize cycle is certified by NSF International, an independent third-party testing and certification organization.

  NSF Protocol P154
  Sanitization Performance of
  Residential Clothes Dryers
- **Various Drying Cycles & Fuzzy Logic Algorithm**
  Simply turn the Jog Dial to select one of the 13 automatic drying cycles, including normal, heavy duty and Bedding Plus, or let the Fuzzy Logic Control measure the degree of dampness and automatically set the drying time. Precision drying has never been easier than with Samsung.
- **Vent Sensor**
  Your Samsung dryer is equipped with a Vent Sensor which detects and notifies you when it is time to clean the ducts. Keep your dryer safe and efficient!
- **Time Saving**
  Our cycles are designed with you in mind. All our dryers are designed to dry your clothes in less time... just 42 minutes! Giving you time for more important things in life.

DV455-02836F-02_EN_20120625.indd Sec9:2 2012-06-25 □□ 5:21:02

- **Energy Saving**
  Samsung dryers are super energy efficient. You can dry up to 3.31 pounds of laundry with 1kWh. Also, both the large capacity and Fuzzy Logic Control save energy by automatically drying your clothes the most efficient way.
- **Easy Reversible Door**
  Our dryers will fit just about anywhere and without a door conflict. The direction of our easy reversible door can be changed easily and quickly.
- **Pedestal with Storage Drawers**
  An optional 15” pedestal is available to raise the dryer for easier loading and unloading. It also offers a built-in storage drawer that can hold a 100 oz. bottle of detergent
- **Stacking (MODEL NO: SK-5A/XAA)**
  Samsung’s Washer and Dryer can be stacked to maximize usable space.

  The dryer legs need to be removed to stack the Washer and Dryer. You can purchase an optional stacking kit from you Samsung retailer.



<Pedestal with Storage Drawers>



<Stacking>

- **4-way Vent (electric model only : DV455*)**
  You can install the exhaust vent in the following four (4) positions: back, either side, bottom.

DV455-02836F-02_EN_20120625.indd Sec9:3 2012-06-25 □□ 5:21:02

Safety instructions

Congratulations on your new Samsung Dryer. This manual contains important information on the installation, use, and care of your appliance. Please take the time to read this manual to take full advantage of your dryer's many benefits and features.

WHAT YOU NEED TO KNOW ABOUT SAFETY INSTRUCTIONS

Please read this manual thoroughly to ensure that you know how to operate the extensive features and functions of your new appliance safely and efficiently. Retain the manual in a safe place near the appliance for future reference. Use this appliance only for its intended purpose as described in this instruction manual. The Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur. It is your responsibility to use common sense, caution, and care when installing, maintaining, or operating your dryer.

Always contact your manufacturer about problems or conditions you do not understand.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS

What the icons and signs in this user manual mean:

⚠ **WARNING**	Hazards or unsafe practices that may result in **severe personal injury, death and/or property damage**. Follow the information in this manual to minimize the risk of fire or explosion or to prevent property damage, personal injury, or death. Do not store or use gasoline or other flammable vapors and liquids near this or any other appliance.
⚠ **CAUTION**	Hazards or unsafe practices that may result in **personal injury and/or property damage**.

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions explicitly.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the service center for help.
	Note

These warning signs are here to prevent injury to you and others.
Please follow them explicitly.
After reading this section, keep it in a safe place for future reference.

SAVE THESE INSTRUCTIONS

DV455-02836F-02_EN_20120625.indd Sec11:4 2012-06-25 □□ 5:21:02

WARNING - Risk of Fire

- Clothes dryer installation must be performed by a qualified installer.
- Install the clothes dryer according to the manufacturer's instructions and local codes.
- Do not install a clothes dryer with flexible plastic venting materials. If flexible metal (foil type) duct is installed, it must be of a specific type identified by the appliance manufacturer as suitable for use with clothes dryers. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct clothes dryer airflow and increase the risk of fire.
- To reduce the risk of severe injury or death, follow all installation instructions.

WARNING TO REDUCE THE RISK OF FIRE OR EXPLOSION:

- Do not dry items that have been previously cleaned, washed, soaked, or spotted with gasoline, dry cleaning solvents, or other flammable or explosive substances. They emit vapors that could ignite or explode. Any material that has been in contact with a cleaning solvent or flammable liquids or solids should not be placed in the dryer until all traces of these flammable liquids or solids and their fumes have been removed.
  There are many highly flammable items used in homes, such as acetone, denatured alcohol, gasoline, kerosene, some liquid household cleaners, some spot removers, turpentine, waxes, and wax removers
- Do not dry items containing foam rubber (may be labeled latex foam) or similarly textured rubber-like materials on a heat setting. Heated foam rubber materials can, under certain circumstances, produce fire by spontaneous combustion.

WARNING WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not turn on the appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Clear the room, building or area of all occupants.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

SAVE THESE INSTRUCTIONS

DV455-02836F-02_EN_20120625.indd Sec11:5 2012-06-25 □□ 5:21:02

Safety instructions

⚠ WARNING

To reduce the risk of fire, electric shock, or injury to persons when using your appliance, follow basic precautions, including the following:

1. Read all instructions before using this appliance.
2. Do not dry articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, dry-cleaning solvents, or other flammable or explosive substances, because they give off vapors that could ignite or explode.
3. Do not use the dryer to dry clothes which have traces of any flammable substance, such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals, such as mops and cleaning cloths. Flammable substances may cause the fabric to catch fire by itself.
4. Do not store or use gasoline or other flammable vapors and liquids near this or any other appliance.
5. Do not allow children or pets to play on, in, or in front of the appliance. Close supervision is necessary when the appliance is used near children and pets.
6. Before the appliance is removed from service or discarded, remove the door to the drying compartment to prevent children or animals from becoming trapped inside.
7. Do not reach into the appliance when the drum is moving.
8. Do not install or store this appliance where it will be exposed to the weather.
9. Do not tamper with the controls.
10. Do not repair or replace any part of the appliance or attempt any servicing unless specifically recommended in the user-maintenance instructions or published in the user-repair instructions that you understand and have the skills to carry out.
11. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
12. Clean the lint screen before or after each load.
13. Do not use heat to dry articles containing foam rubber or similarly textured rubber-like materials.
14. Keep the area around the exhaust opening and surrounding areas free from lint, dust, and dirt.
15. The interior of the dryer and exhaust duct should be cleaned periodically by qualified service personnel.
16. Do not place items exposed to cooking oils in your dryer. Items contaminated with cooking oils may contribute to a chemical reaction that could cause a load to catch fire.
17. This appliance must be grounded. See “Electrical requirements” and ”Grounding” in the “Installing your dryer” section.
18. This appliance must be properly grounded. Never plug the power cord into a receptacle that is not grounded adequately and in accordance with local and national codes. Refer to installation instructions for grounding this appliance.

SAVE THESE INSTRUCTIONS

DV455-02836F-02_EN_20120625.indd Sec11:6 2012-06-25 □□ 5:21:02

19. Ensure pockets are free from small irregularly shaped hard objects and foreign material, i.e. coins, knives, pins, etc. These objects could damage your dryer.

20. Gas leaks may occur in your system, resulting in a dangerous situation.

21. Gas leaks may not be detected by smell alone.

22. Gas suppliers recommend you purchase and install a UL-approved gas detector.

⚠ WARNING STATE OF CALIFORNIA PROPOSITION 65 WARNINGS:

The California Safe Drinking Water and Toxic Enforcement Act requires the Governor of California to publish a list of substances known to the State of California to cause cancer, birth defects, or other reproductive harm, and requires businesses to warn of potential exposure to such substances.

This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. This appliance can cause low-level exposure to some of the substances listed, including benzene, formaldehyde, and carbon monoxide.

Gas appliances may cause low-level exposure to some of the substances listed including benzene, formaldehyde, carbon monoxide, and soot; as a result of possible incomplete combustion of natural gas or LP fuels. Exposure to these substances can be minimized further by properly venting the dryer to the outdoors.

⚠ CAUTION CAUTION

1. Do not sit on top of the dryer.

2. Because of continuing product improvements, Samsung reserves the right to change specifications without notice. For complete details, see the Installation Instructions packed with your product before selecting cabinetry, making cutouts, or beginning installation.

3. Do not wash clothing with large buckles, buttons, or other heavy metal or solid things.

4. Install and use in accordance with the manufacturer's instructions.

5. Do not place items in your dryer that have been spotted or soaked with vegetable oil or cooking oil. Even after being washed, these items may contain significant amounts of these oils.

6. Residual oil on clothing can ignite spontaneously. The potential for spontaneous combustion increases when items containing vegetable oil or cooking oil are exposed to heat. Heat sources such as your dryer can warm these items, allowing an oxidation reaction in the oil to occur. Oxidation creates heat. If this heat cannot escape, the items can become hot enough to catch fire. Piling, stacking, or storing these kinds of items may prevent heat from escaping and can create a fire hazard.

7. All washed and unwashed fabrics that contain vegetable oil or cooking oil can be dangerous. Washing these items in hot water with extra detergent will reduce, but not eliminate, the hazard. Always use the Cool Down cycle for these items to reduce their temperature. Never remove these items from the dryer hot or interrupt the drying cycle until the items have run through the Cool Down cycle. Never pile or stack these items when they are hot.

8. Take care that children's fingers are not caught in the door when closing it. This may result in injury.

SAVE THESE INSTRUCTIONS

DV455-02836F-02_EN_20120625.indd Sec11:7 2012-06-25 □□ 5:21:02

Safety instructions

REGULATORY NOTICE

1. FCC Notice

FCC CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received including interference that causes undesired operation.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

FCC STATEMENT:

This equipment has been tested and found to comply within the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

SAVE THESE INSTRUCTIONS

DV455-02836F-02_EN_20120625.indd Sec11:8 2012-06-25 □□ 5:21:02

2. IC Notice

The term “IC” before the radio certification number only signifies that Industry Canada technical specifications were met. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

For product available in the USA/Canada market, only channels 1~11 can be operated. Selection of other channels is not possible.

IC RADIATION EXPOSURE STATEMENT:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator & your body. This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

SAVE THESE INSTRUCTIONS

DV455-02836F-02_EN_20120625.indd Sec11:9 2012-06-25 □□ 5:21:02

contents

INSTALLING YOUR DRYER 12

12 Unpacking your dryer
12 See exhaust requirements
13 Basic requirements
13 Ducting requirements
14 Important to installer
15 Location considerations
15 Alcove or closet installations
17 Mobile home installations
17 Exhausting
18 Gas requirements
18 Commonwealth of massachusetts installation instructions
19 Electrical requirements
19 Grounding
20 Electrical connections
21 Connecting the inlet hose
23 Replacement parts and accessories
23 Installation
26 Final installation checklist
26 Dryer exhaust tips
27 Door Reversal

OPERATING INSTRUCTIONS, TIPS 29

29 Overview of the control panel
34 Rack Dry
35 Clean the lint filter
35 Load the dryer properly
35 Getting started
36 Vent Sensor
37 Setting up Smart control and Smart monitoring
40 Using the mobile app (Android)
52 Using the mobile app (iOS)
62 Registering your dryer

CARE AND CLEANING 64

64 Control Panel
64 Tumbler
64 Stainless Steel Tumbler
64 Dryer Exterior
64 Dryer Exhaust System

DV455-02836F-02_EN_20120625.indd Sec2:10 2012-06-25 □□ 5:21:02

SPECIAL LAUNDRY TIPS 65
65 Special laundry tips

TROUBLESHOOTING 66
66 Check these points if your dryer…
68 Information codes
69 Network Setup Q&A

APPENDIX 71
71 Fabric care chart
72 Protecting the environment
72 Declaration of conformity
72 Specifications
73 Cycle chart
74 Open Source Announcement

DV455-02836F-02_EN_20120625.indd Sec2:11 2012-06-25 □□ 5:21:03

Installing your dryer

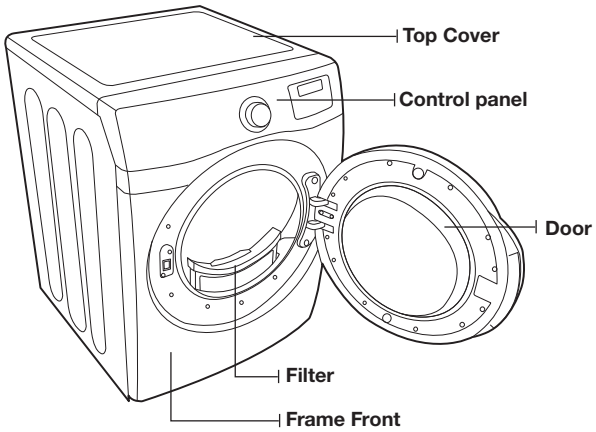
UNPACKING YOUR DRYER

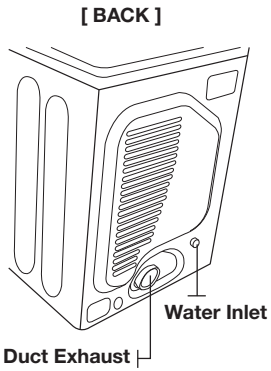
Unpack your Dryer and inspect it for shipping damage. Make sure you have received all the items shown below. If your Dryer was damaged during shipping, or you do not have all the items, contact 1-800-SAMSUNG (726-7864).

To prevent personal injury or strain, wear protective gloves whenever lifting or carrying the unit.

WARNING The packing materials can be dangerous children. Keep all packaging material (plastic bags, polystyrene, etc.) well out of the reach of children.

SEE EXHAUST REQUIREMENTS





Parts supplied



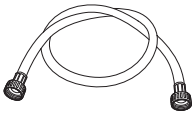
"Y"-connector



Short inlet hose

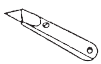
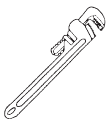
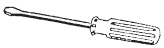
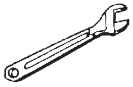


Rubber Washer



Long inlet hose

DV455-02836F-02_EN_20120625.indd 12 2012-06-25 □□ 5:21:03

Tools needed			
			
Pliers	**Cutting knife**	**Pipe wrench (gas only)**	**Nut drivers**
			
Level	**Phillips Screwdriver**	**Duct tape**	**Wrench**

BASIC REQUIREMENTS

Make sure you have everything necessary for the proper installation

- A GROUNDED ELECTRICAL OUTLET is required. Refer to the "Electrical requirements" section on page 19.
- A POWER CORD electric dryer (except for Canada).
- GAS LINES (if a gas dryer) must meet national and local codes.
- The EXHAUST SYSTEM must be made of rigid metal or flexible stiff-walled metal exhaust ducting.

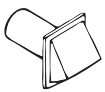
DUCTING REQUIREMENTS

- Use a 4-inch (10.2 cm) diameter rigid aluminum or rigid galvanized steel duct.
- Do not use a smaller duct.
- Ducts larger than 4 inches (10.2 cm) in diameter can result in increased accumulation of lint.
- Lint should be removed regularly.
- If a flexible metal duct must be used, use the type with a stiff sheet metal wall. Do not use a flexible duct with a thin foil wall. A serious blockage can result if the flexible metal duct is bent too sharply.
- Never install any type of flexible duct in walls, ceilings, or other concealed spaces.
- Keep the exhaust duct as straight and short as possible.
- Secure joints with duct tape. Do not use screws.
- Plastic flexible ducts can kink, sag, be punctured, reduce airflow, extend drying times, and affect the dryer operation.
- Exhaust systems longer than recommended can extend drying times, affect machine operations, and collect lint.
- The exhaust duct should end with an exhaust hood with a swing-out damper to prevent back drafts and entry of wildlife. Never use an exhaust hood with a magnetic damper.
- The hood should have at least 12 inches (30.5 cm) of clearance between the bottom of the hood and the ground or other obstruction. The hood opening should point down.
- Never install a screen over the exhaust outlet.
- To avoid lint buildup, do not exhaust the dryer directly into a window well. Do not exhaust under a house or porch.
- If the exhaust duct must run through an unheated area, the duct should be insulated and slope slightly down towards the exhaust hood to reduce condensation and lint buildup.

DV455-02836F-02_EN_20120625.indd 13 2012-06-25 □□ 5:21:03

Installing your dryer

- Inspect and clean the interior of the exhaust system at least once a year. Unplug the power cord before cleaning.
- Check frequently to make sure the exhaust hood damper opens and closes freely.
- Check once per month, and clean at least once per year. Note: If your clothes are not getting dry, then check the ducting for obstructions.
- Do not exhaust the dryer into a wall, ceiling, crawl space, or concealed space of a building, gas vent, or any other common duct or chimney. This could create a fire hazard from the lint expelled by the dryer.

	ELECTRIC AND GAS DRYER			
	Weather Hood Type			
	Recommended		**Use only for short-run installation**	
	 4” (10 .16 cm)		 2.5” (6.35 cm)	
No. of 90° elbows	Rigid	Metallic Flexible*	Rigid	Metallic Flexible*
0	24.4 m (80 ft.)	12.4 m (41 ft.)	22.6 m (74 ft.)	10.1 m (33 ft.)
1	20.7 m (68 ft.)	11.2 m (37 ft.)	18.9 m (62 ft.)	8.8 m (29 ft.)
2	17.4 m (57 ft.)	10.1 m (33 ft.)	15.5 m (51 ft.)	7.6 m (25 ft.)
3	14.3 m (47 ft.)	9.0 m (29 ft.)	12.5 m (41 ft.)	6.5 m (21 ft.)

* Do not use non-metallic flexible ducts.

If the new dryer is installed into an existing exhaust system you must make sure:

- The exhaust system meets all local, state, and national codes.
- That a flexible plastic duct is not used.
- To inspect and clean all lint buildup from inside the existing duct.
- The duct is not dented or crushed.
- The exhaust hood damper opens and closes freely.

The static pressure in any exhaust system must not exceed 0.83 inches of water column, or be less than 0.

This can be measured with the dryer running with a manometer at the point where the exhaust duct connects to the dryer. A no-heat setting should be used. The dryer tumbler should be empty and the lint filter clean.

IMPORTANT TO INSTALLER

Please read the following instructions carefully before installing the dryer. These instructions should be kept for future reference.

WARNING Remove the door from all discarded appliances to avoid the danger of a child being trapped and suffocating.

DV455-02836F-02_EN_20120625.indd 14 2012-06-25 □□ 5:21:03

LOCATION CONSIDERATIONS

The dryer should be located where there is enough space at the front for loading the dryer, and enough space behind for the exhaust system. This dryer is factory-ready for the rear exhaust option. To exhaust out the bottom, right or the left, use the accessory exhaust kit. Instructions are included with the kit. Make sure the room in which the dryer is located has enough fresh air. The dryer must be located where there are no air-flow obstructions.

For gas dryers, adequate clearance must be maintained as noted on the data plate to ensure adequate air for combustion and the proper dryer operation.

The dryer must not be installed or stored in an area where it will be exposed to water and/or weather. The dryer area must be kept clear of combustible materials, gasoline, and other flammable vapors and liquids. A dryer produces combustible lint. The area around the dryer should be kept lint-free.

ALCOVE OR CLOSET INSTALLATIONS

WARNING The dryer must be exhausted to the outside to reduce the risk of fire when installed in an alcove or closet.

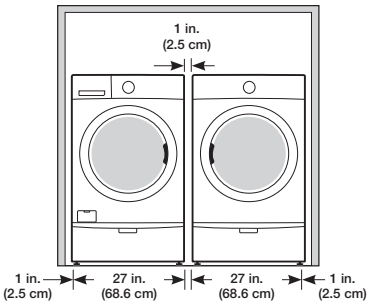
- No other fuel-burning appliance should be installed in the same closet as the dryer.
- WARNING: To reduce the risk of fire, this dryer must be exhausted to the outside. Refer to the "Exhausting" section on page 17.

Minimum clearances between the dryer and adjacent walls or other surfaces

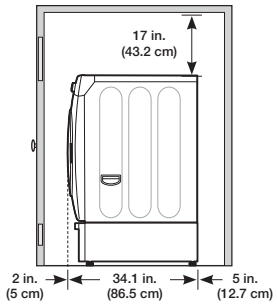
Sides	1 in / 25 mm	Rear	5 in / 127 mm
Top	17 in / 432 mm	Front	2 in / 51 mm

- The front of the closet must have two unobstructed air openings for a combined minimum total area of 72 in^2 (465 cm^2) with a minimum clearance of 3" (7.6 cm) at the top and bottom. A slatted door with equivalent space clearances is acceptable.

Recessed area



Side view - closet or confined area

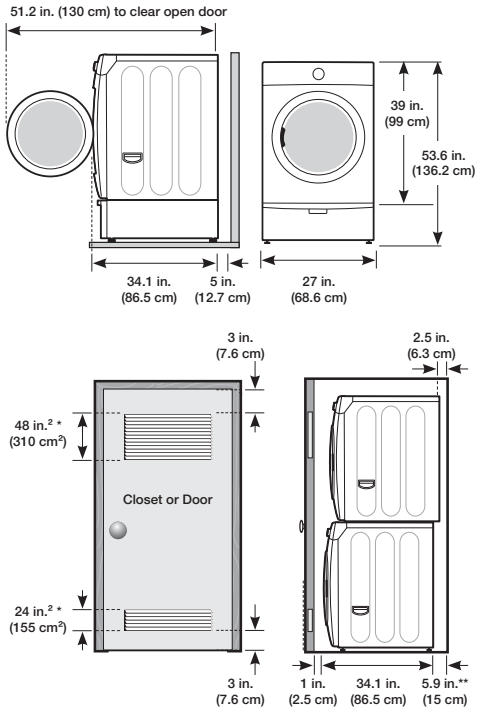


DV455-02836F-02_EN_20120625.indd 15 2012-06-25 □□ 5:21:04

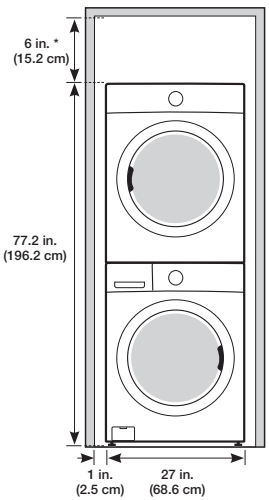
Installing your dryer

With optional pedestal base or stacking kit

Required Dimensions for Installation With Pedestal



Required Dimensions for Installation With Stacking Kit



* Required spacing

** An external exhaust elbow requires additional space.

It is not recommended to stack DV457* on your washer.
(it might be hard to control dryer LCD because of the viewing angle.)

DV455-02836F-02_EN_20120625.indd 16 2012-06-25 □□ 5:21:04

MOBILE HOME INSTALLATIONS

The installation of the dryer in a mobile home must conform to the Manufactured Home Construction and Safety Standards Title 24 CFR, Part 3280 {formerly the Federal Standards for Mobile Home Construction and Safety, Title 24, HUD (Part 280), 1975} for the United States) or CSA Standards Z240 (for Canada).

- When installing a dryer in a mobile home, provisions for anchoring the dryer to the floor must be made.
- Locate an area with adequate fresh air.
- A minimum unobstructed space of 72 in^2 (465 cm^2) is required.
- Call 1-800-SAMSUNG for information on purchasing the Floor Anchoring Kit as an accessory.
- All mobile home installations must be exhausted to the outside with the exhaust duct termination securely fastened to the mobile home structure, using materials that will not combust.
- The exhaust duct may not terminate underneath the mobile home.
- Refer to the following “Exhausting” section for more information.

EXHAUSTING

The dryer shall not be exhausted into a chimney, a wall, a ceiling, an attic, a crawl space, or a concealed space of a building.

Exhausting the dryer to the outside will prevent large amounts of lint and moisture from being blown into the room.

Refer to the “Ducting requirements” section on page 13 for the maximum duct length and number of bends.

- All dryers must be exhausted to the outside.
- Do not assemble the duct with screws or other fastening means that extend into the duct and catch lint.
- The exhaust duct should be 4 inches (102 mm) in diameter.
- The total length of flexible metal duct shall not exceed 2.4 m (7.8 ft.).

In the United States:

- Use only those foil-type flexible ducts, if any, specifically identified for use with the appliance by the manufacturer and that comply with the Outline for Clothes Dryer Transition Ducts, Subject 2158A, shall be used.

In Canada:

- Use only those foil-type flexible ducts, if any, specifically identified for use with the appliance by the manufacturer.

Outside the U.S. and Canada:

- Refer to the local codes.

WARNING The dryer must be exhausted to the outside to reduce the risk of fire when installed in an alcove or closet.

WARNING NEVER USE A PLASTIC OR NON-METAL FLEXIBLE DUCT.
If your existing ductwork is plastic, non-metal, or combustible, replace it with metal.
Use only a metal exhaust duct that is non-flammable to ensure containment of the exhaust air, heat, and lint.

DV455-02836F-02_EN_20120625.indd 17 2012-06-25 5:21:04

Installing your dryer

GAS REQUIREMENTS

Use only natural or LP (liquid propane) gases.

THE INSTALLATION MUST CONFORM WITH LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL FUEL GAS CODE ANSI/Z223.1, LATEST REVISION (FOR THE UNITED STATES), OR WITH THE CAN/CGA-B149 INSTALLATION CODES (FOR CANADA).

Gas dryers are equipped with a burner vent for use with natural gas. If you plan to use your dryer with LP (liquid propane) gas, it must be converted for safe and proper performance by a qualified service technician.

A 1/2" (1.27 cm) gas supply line is recommended and must be reduced to connect to the 3/8" (1 cm) gas line on your dryer. The National Fuel Gas Code requires that an accessible, approved manual gas shut-off valve be installed within 6" of your dryer.

Gas dryers installed in residential garages must be raised 18 inches (46 cm) above the floor.

Additionally, a 1/8" (0.3 cm) N.P.T. (National Pipe Thread) plugged tapping, accessible for test gauge connection, must be installed immediately upstream of your dryer's gas supply connection.

Your dryer must be disconnected from the gas supply pipe system during any pressure testing of the system.

DO NOT reuse old flexible metal gas lines. Flexible gas lines must be design certified by the American Gas Association (CGA in Canada).

- Any pipe joint compound used must be resistant to the action of any liquefied petroleum gas.
- As a courtesy, most local gas utilities will inspect a gas appliance installation.

GAS IGNITION - Your dryer uses an automatic ignition system to ignite the burner. There is no constant burning pilot.

COMMONWEALTH OF MASSACHUSETTS INSTALLATION INSTRUCTIONS

Your dryer must be installed by a licensed plumber or gas fitter. A "T" handle manual gas valve must be installed in the gas supply line to your dryer. If a flexible gas connector is used to install your dryer, the connector may not be longer than 3' (36").

WARNING

- Gas leaks may occur in your system, creating a dangerous situation.
- Gas leaks may not be detected by smell alone.
- Gas suppliers recommend that you purchase and install a UL-approved gas detector.
- Install and use it in accordance with the manufacturer's instructions.

DV455-02836F-02_EN_20120625.indd 18 2012-06-25 □□ 5:21:04

ELECTRICAL REQUIREMENTS

The wiring diagram is located on the plate below the control panel.

WARNING

- The improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether your dryer is properly grounded. Do not modify the plug provided with your dryer - if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.
- To prevent unnecessary risk of fire, electrical shock, or personal injury, all wiring and grounding must be done in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA No. 70-Latest Revision (for the U.S.) or the Canadian Electrical Code CSA C22.1 - Latest Revisions and local codes and ordinances. It is your responsibility to provide adequate electrical services for your dryer.
- All gas installations must be done in accordance with the national Fuel Code ANSI/Z2231 - Latest Revision (for the U.S.) or CAN/CGA - B149 Installation Codes - Latest Revision (for Canada) and local codes and ordinances.

GROUNDING

This dryer must be grounded. In the event of a malfunction or breakdown, the grounding the product will reduce the risk of electrical shock by providing a path of least resistance for the electrical current.

Gas models

WARNING

Your dryer has a cord with an equipment-grounding conductor and a grounding plug.

The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided with your dryer – if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.

Never connect the ground wire to the plastic plumbing lines, gas lines, or hot water pipes.

Electric models

WARNING

Your dryer has an optional cord with an equipment-grounding conductor and a grounding plug, which is sold separately.

The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided with your dryer – if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.

If a power cord is not used and the electric dryer is to be permanently wired, the dryer must be connected to a permanently grounded metal wiring system, or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the dryer.

DV455-02836F-02_EN_20120625.indd 19 2012-06-25 □□ 5:21:04

Installing your dryer

ELECTRICAL CONNECTIONS

Before operating or testing, follow all grounding instructions in the "Grounding" section on page 19.
An individual branch (or separate) circuit serving only your dryer is recommended. DO NOT USE AN EXTENSION CORD.

Gas models – U.S. and Canada

A 120 volt, 60 Hz AC approved electrical service, with a 15-ampere fuse or circuit breaker is required.

Electric models – U.S. only

Most U.S. dryers require a 120/240 volt, 60 Hz AC approved electrical service. Some require 120/208 volt, 60 Hz approved electrical service. The electric service requirements can be found on the data label located behind the door. A 30-ampere fuse or circuit breaker on both sides of the line is required.

- If a power cord is used, the cord should be plugged into a 30-ampere receptacle.
- The power cord is NOT provided with U.S. electric model dryers.

WARNING **RISK OF ELECTRIC SHOCK:**
When local codes allow, the electrical supply of the dryer may be connected by means of a new power supply cord kit, marked for use with a dryer, that is U.L. listed and rated at a minimum of120/240 volts, 30-ampere with three No. 10 copper wire conductors terminated with closed loop terminals, open-end spade lugs with turned up ends, or with tinned leads.

- Do not reuse a power supply cord from an old dryer. The power cord electric supply wiring must be retained at the dryer cabinet with a suitable UL-listed strain relief.
- Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor. (Use a 4-prong plug for 4 wire receptacles, NEMA type 14-30R.)

Electric models – Canada Only

- A 120/240 volt, 60 Hz AC approved electrical service fused through a 30-ampere fuse or circuit breaker on both sides of the line is required.
- All Canadian models are shipped with the power cord attached. The power cord should be plugged into a 30-ampere receptacle.

In Canada, you may not convert a dryer to 208 volts.

DV455-02836F-02_EN_20120625.indd 20 2012-06-25 □□ 5:21:04

CONNECTING THE INLET HOSE

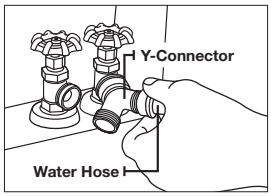
Method 1

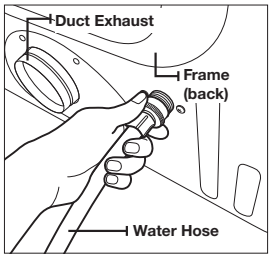
The dryer must be connected to the cold water faucet using the new inlet hoses. Do not use old hoses.

1. If space permits, attach the brass female end of the “Y” connector to the cold water faucet.
2. Turn the cold water faucet off.
3. Attach the straight end of long hose to the “Y’ connector.
4. Using pliers, tighten the coupling with an additional two-thirds turn.

   Do not overtighten, as this may damage the coupling.
5. Attach the angled end of long hoses to fill the valve at the bottom of the dryer’s rear frame. Screw on the coupling by hand until it is seated on the fill valve connector.
6. Using the pliers, tighten the coupling with an additional two-thirds turn.

   Do not overtighten, as this may damage the coupling.
7. Check that the water faucets are on.
8. Check for leaks around the “Y” connector, faucets and hoses.

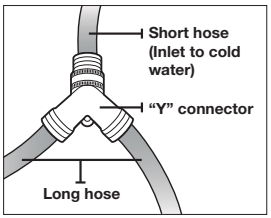




DV455-02836F-02_EN_20120625.indd 21 2012-06-25 □□ 5:21:04

Method 2

The dryer must be connected to the cold water faucet using the new inlet hoses. Do not use old hoses.

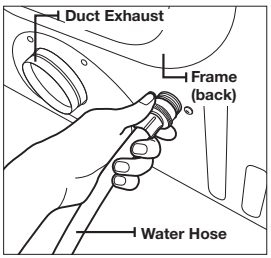


1. If the "Y" connector cannot be attached directly to the cold water faucet, the short hose must be used.
2. Turn the cold water faucet off.
3. Attach the short inlet hose to the cold water faucet. Screw on the coupling by hand until it is seated on the faucet.
4. Using the pliers, tighten the coupling with an additional two-thirds turn.

   Do not overtighten, as this may damage the coupling.
5. Attach the 'Y" connector to the brass male end of the small hose. Screw on the coupling by hand until it is seated on the connector.
6. Using the pliers, tighten the coupling with an additional two-thirds turn.

   Do not overtighten, as this may damage the coupling.
7. Attach the angled end of long hoses to the fill valve at the bottom of the dryer rear frame. Screw on the coupling by hand until it is seated on the fill valve connector.
8. Using pliers, tighten the coupling with an additional two-thirds turn.

   Do not overtighten, as this may damage the coupling.
9. Attach the washer hose to the other side of the "Y" connector. Screw on the hose coupling until it is tight. Using pliers, tighten the coupling with an additional two thirds turn.



Do not overtighten. You can damage the coupling.

10. Check that the water faucets are on.
11. Check for leaks around the "Y" connector, faucets and hoses.

DV455-02836F-02_EN_20120625.indd 22 2012-06-25 □□ 5:21:05

REPLACEMENT PARTS AND ACCESSORIES

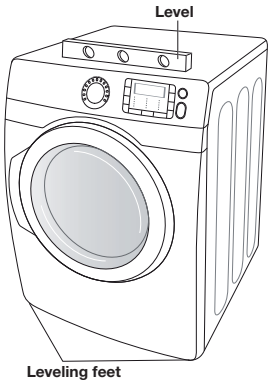
If your dryer requires replacement parts or accessories, contact the dealer where you purchased your dryer or the SAMSUNG customer care center at 1-800-SAMSUNG (726-7864).

INSTALLATION

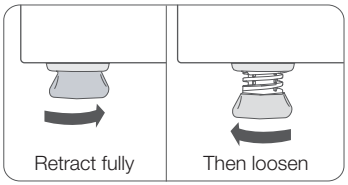
For the proper installation, we recommend that you hire a qualified installer.

To install

1. Move your dryer to an appropriate location for the installation. Consider installing the dryer and washer side-by-side, to allow access to the gas, electrical, and exhaust connections. Place two of the carton cushion-tops on the floor. Tip your dryer on its side so it lies across both cushion-tops.
2. Set your dryer back in an upright position.
3. To ensure that the dryer provides the optimal drying performance, it must be level. To minimize vibrations, noise, and unwanted movement, the floor must be a perfectly level, solid surface.



To set the dryer to the same height as the washer, fully retract the leveling feet by turning them counterclockwise, then loosen the legs by turning them clockwise.



Adjust the leveling feet only as much as necessary to level the dryer. Extending the leveling feet more than necessary can cause the dryer to vibrate.

4. Review the "Exhausting" section on page 17 before installing the exhaust system. Install the ductwork from your dryer to the exhaust hood. The crimped end of the duct sections must point away from your dryer.

   DO NOT use sheet metal screws when assembling the ducting. These joints should be taped.

   Never use plastic flexible exhaust material.

   Tip for tight installations: install a section of the exhaust system onto your dryer before putting it in place.

   Use duct tape to secure this section to your dryer, but do not cover the ventilation slots at the back of the unit in dryer cabinet.

DV455-02836F-02_EN_20120625.indd 23 2012-06-25 □□ 5:21:05

5. Review the "Electrical requirements" section on page 19.
   BEFORE OPERATING OR TESTING, follow the grounding instructions in the "Grounding" section on page 19.

   WARNING **U.S. MODELS:**
   RISK OF ELECTRIC SHOCK - All U.S. models are produced for a **3-WIRE SYSTEM CONNECTION**.
   The dryer frame is grounded to the neutral conductor at the terminal block.
   A **4-WIRE SYSTEM CONNECTION** is required for new or remodeled construction, mobile homes, or if local codes do not permit grounding through neutral. If the 4-wire system is used, the dryer frame cannot be grounded to the neutral conductor at the terminal block. Refer to the following instructions for 3 and 4-WIRE SYSTEM CONNECTIONS.

   Remove the terminal block cover plate.
   Insert the power cord with a UL-listed strain relief through the hole provided in the cabinet near the terminal block.

   A strain relief must be used.

   Do not loosen the nuts already installed on the terminal block. Be sure they are tight.
   Use a 3/8" (1 cm) deep well socket.

6. Review the "Gas requirements" section on page 18. Remove the pipe thread protective cap. Apply a pipe joint compound or about 1 1/2 wraps of Teflon tape over all threaded connections.

   The pipe joint compound must be resistant to the actions of any liquefied petroleum gas.

   Connect the gas supply to your dryer. An additional fitting is required to connect the 3/4" (1.9 cm) female thread end of a flexible connector to the 3/8" (1 cm) male threaded end on the dryer.

   Securely tighten the gas line fitting over the threads.

   Turn on the gas supply.

   Check all gas connections for leaks using a soap solution.

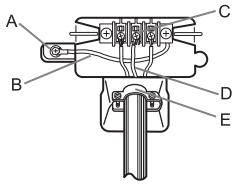
   If bubbles appear, tighten the connections and recheck. DO NOT use an open flame to check for gas leaks.

DV455-02836F-02_EN_20120625.indd 24 2012-06-25 □□ 5:21:05

3-WIRE system connections

1. Loosen or remove the center terminal block screw.
2. Connect the neutral wire (white or center wire) of the power cord to the center, silver-colored terminal screw of the terminal block. Tighten the screw.
3. Connect the other wires to the outer terminal block screws. Tighten the screws.
4. Tighten the strain relief screws.
5. Insert the tab of the terminal block cover into your dryer's rear panel slot.
6. Secure the cover with a hold-down screw.

1	External ground connector
2	Neutral grounding wire (green/yellow)
3	Center silver-colored terminal block screw
4	Neutral wire (white or center wire)
5	3/4" (1.9 cm) UL-listed strain relief

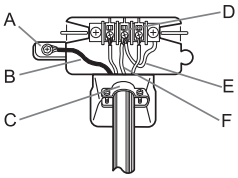


WARNING If converting from a 4-wire electrical system to a 3-wire, the ground strap must be reconnected to the terminal block support to ground the dryer frame to the neutral conductor.

4-WIRE system connections

1. Remove the center terminal block screw.
2. Connect the ground wire (green or unwrapped) of the power cord to the external ground conductor screw.
3. Connect the neutral wire (white or center wire) of the power cord and the appliance ground wire (green with yellow stripes) under the central screw of the terminal block.
4. Connect the other wires to the outer terminal block screws. Tighten the screws.
5. Tighten the strain relief screws.
6. Insert the tab of the terminal block cover into your dryer's rear panel slot.
7. Secure the cover with a hold-down screw.

1	External ground connector
2	Green or bare copper wire of the power cord
3	3/4 in. (1.9 cm) UL-listed strain relief
4	Center silver-colored terminal block screw
5	Grounding wire (green/yellow)
6	Neutral wire (white or center wire)



8. With a level, check your dryer and make the necessary adjustments to the leveling legs.
9. At this time, make sure all gas connections (on gas models), exhaust and electrical connections are complete. Plug in your dryer, and check its operation by using the checklist below.
10. (GAS MODELS ONLY)

    The burner may not ignite initially due to air in the gas line. Allowing your dryer to operate on a heat setting will purge the line. If the gas does not ignite within 5 minutes, turn your dryer off and wait 5 minutes. Be sure the gas supply to your dryer has been turned on. In order to confirm the gas ignition, check the exhaust for heat.

DV455-02836F-02_EN_20120625.indd 25 2012-06-25 □□ 5:21:05

Installing your dryer

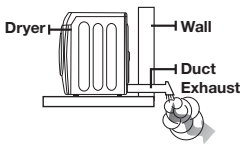
FINAL INSTALLATION CHECKLIST

- the dryer is plugged into an electrical outlet and is properly grounded.
- The exhaust ductwork is hooked up and the joints are taped.
- A plastic flexible duct is NOT used.
- Use rigid or stiff-walled flexible metal vent material.
- The dryer is level and is sitting firmly on the floor.
- Gas models – the gas is turned on with no gas leaks.
- Start your dryer to confirm that it runs, heats, and shuts off.

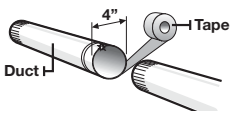
DRYER EXHAUST TIPS

WARNING A plastic or non-metal flexible duct presents a potential fire hazard.

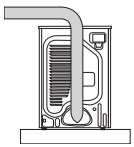
1. Make sure your dryer is installed properly so it exhausts air easily.



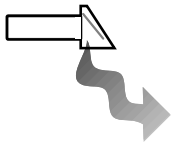
2. Use a 4" diameter rigid metal duct. Tape all joints, including at the dryer. Never use lint-trapping screws.



3. Keep ducts as straight as possible.

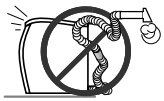


4. Clean all old ducts before installing your new dryer. Be sure the vent flap opens and closes freely. Inspect and clean the exhaust system annually.



Don't let a poor exhaust system slow the drying process by:

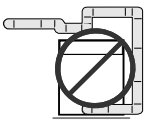
- Restricting your dryer with a poor exhaust system.



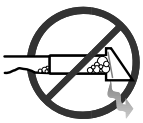
- Using a plastic, thin foil, or non-metal flexible duct.



- Unnecessarily using long ducts that have many elbows.



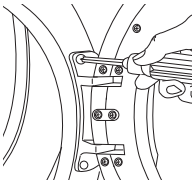
- Allowing dented or clogged ducts and vent.



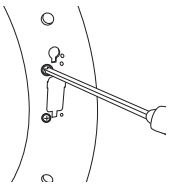
DV455-02836F-02_EN_20120625.indd 26 2012-06-25 □□ 5:21:05

DOOR REVERSAL

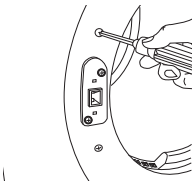
1. Unplug the power cord.
2. Remove two door hinge screws.
3. Lift the door and remove it.



4. Remove two screws from the frame front.



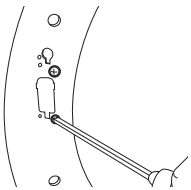
5. Remove the two screws from the opposite side of the door hinge.



6. Remove the two screws from the holder lever.

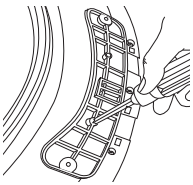


7. Reassemble the two screws on the inside holes.



8. Remove a screw from the door hinge.

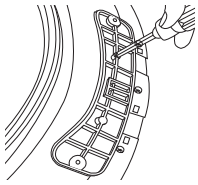
The screw is for pre-fixing the door to the frame front.



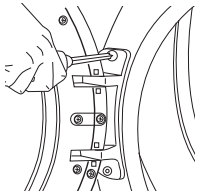
DV455-02836F-02_EN_20120625.indd 27 2012-06-25 □□ 5:21:06

Installing your dryer

9. Reassemble the screw in the other hole.



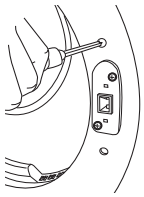
10. Place the door on the other side and reattach it to the dryer.



11. Reattach the holder lever.



12. Reattach the screws in the remaining holes.

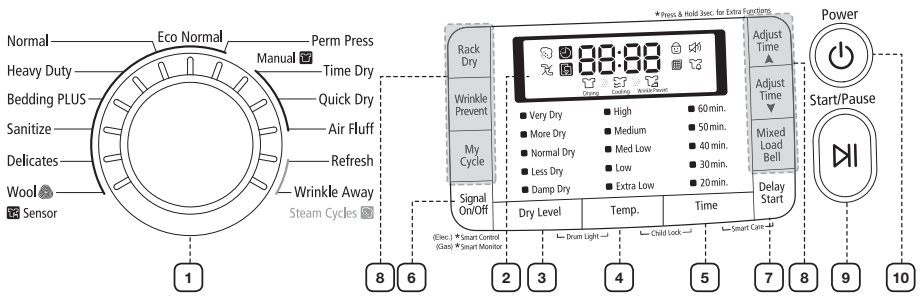


DV455-02836F-02_EN_20120625.indd 28 2012-06-25 □□ 5:21:06

Operating instructions, tips

WARNING To reduce the risk of fi re, electric shock, or injury to persons,read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.

OVERVIEW OF THE CONTROL PANEL



1 **Cycle Selector**	To select a cycle, rotate the Cycle Selector dial to the desired cycle. The indicator light by the cycle name will illuminate. The Wool, Delicates, Sanitize, Bedding PLUS, Heavy Duty, Normal, Eco Normal and Perm Press cycles are Sensor Dry cycles. Sensor Dry automatically senses the moisture in the load and shuts the dryer off when the selected dryness level (very dry to damp dry) is reached. **Eco Normal** - This cycle reduces energy usage by up to 15% compared to the Normal Dry cycle. It adjusts the cycle time and temperature for increased efficiency. **Normal** - Use this cycle to dry loads such as cotton, underwear, and linen. **Heavy Duty** - Use this cycle to get high heat for heavy fabrics such as jeans, corduroys, or work clothes. **Perm Press** - Dry wrinkle-free cottons, synthetic fabrics, knits, and permanent press fabrics automatically. **Bedding PLUS** - For bulky items such as blankets, sheets, and comforters. **Delicates** - The Delicates cycle is designed to dry heat-sensitive items at a low drying temperature. **Wool** - For machine washable and tumble dryable wool only. WOOLMARK APPAREL CARE Load should be under 3 pounds. The Wool cycle of this machine has been approved by Woolmark company for Total-Easy-Care Wool products, M0913(DV455E*) and M1007(DV455G*). **Sanitize** - Sanitize garments by infusing high temperature heat deep into the fabric during the drying cycle. Use this course to keep your bedding and curtains clean through sanitization. **Time Dry** - Time Dry allows you to select the desired cycle time in minutes. Turn the Cycle Selector dial to Time Dry, then press the Adjust Time up arrow to set the drying time. Press the arrow repeatedly to scroll through the time settings.

DV455-02836F-02_EN_20120625.indd Sec3:29 2012-06-25 5:21:06

Operating instructions, tips

	Quick Dry - Provides a 30 minutes drying cycle. **Air Fluff** - The Air Fluff cycle tumbles the load in room temperature air. **Refresh** - This cycle is best for smoothing out wrinkles and reducing odors from loads consisting of one to four dry items. In this cycle a small amount of water is sprayed into the dryer drum after several minutes of tumbling with heat. **Wrinkle Away** - The Wrinkle Away cycle removes wrinkles from clothes stored in closets, etc. It provides wrinkle release via optimized steam care. You can change the drying time.(Minimum time : 20 minutes) *For best results, load no more than 3 items. Overloading the dryer may not yield the same results.
2 **LED Display**	The display window shows the estimated time remaining in the cycle after the Start/Pause button is pressed. The estimated time remaining may fluctuate as the cycle progresses. The Drying light will illuminate and remain lit until the cycle is complete. When your dryer is in the cool-down phase, the Cooling light will illuminate. When your dryer is in the wrinkle prevent phase, the Wrinkle Prevent light will illuminate. When the cycle is complete, “End” will appear in the display panel until the dryer door is opened or the Power button is pushed. If your dryer is paused during a cycle, the indicator lights will blink until the Start/ Pause button is pressed.
3 **Dry Level Selection Button**	To select the dry level in the Normal, Heavy Duty, or other Sensor Dry cycles, press the Dry Level button. An indicator light will illuminate next to the desired dryness level. Press the button repeatedly to scroll through the settings. Larger or bulkier loads may require the Very Dry or More Dry setting for complete dryness. The Less Dry setting is best suited for lightweight fabrics or for leaving some moisture in the clothing at the end of the cycle. Damp Dry is designed to partially dry items. Use for items that lay flat or hang to dry.
4 **Temp Selection Button**	To select the correct temperature for the load, press the Temp button. An indicator light will illuminate next to the desired temperature. Press the button repeatedly to scroll through the settings. **High** – For sturdy cottons or those labeled Tumble Dry. **Medium** – For permanent press, synthetics, lightweight cottons, or items labeled Tumble Dry Medium. **Med Low** – For lower heat than Medium to dry synthetic or washable knit fabrics. **Low** – For heat sensitive items labeled Tumble Dry Low or Tumble Dry Warm. **Extra Low** – Provides the lowest heated dry temperature possible.
5 **Time Selection Button**	When using Manual Dry cycles, you can adjust the drying time by pressing the Time selection button. During the Sensor Dry cycle, the time light indicator is off because exact drying times are determined by fluctuating humidity levels.

DV455-02836F-02_EN_20120625.indd Sec3:30 2012-06-25 □□ 5:21:07

6 **Signal Selection Button**	When the cycle is complete, a chime will sound. If you selected the Wrinkle Prevent option, the chime will sound intermittently. Adjust the volume of the chime or turn it off by pressing the Signal button. Press the button repeatedly to scroll through the choices.
7 **Delay Start Button**	Any cycle can be delayed for up to 24 hours in one-hour increments. Displayed hour indicates the time at which the cycle will be started. (Refer to the "**Delay Start**" section on page 32.)
8 **Select Cycle Option**	**Adjust Time** – Time can be added or subtracted from the automatically set times in the Manual Dry cycles (Time Dry, Quick Dry, or Air Fluff cycles) and Wrinkle Away cycle. To add or subtract time from the cycle, press the Adjust Time arrow pad up or down until the desired time is displayed. **Wrinkle Prevent** -Wrinkle Prevent provides approximately 180 minutes of intermittent tumbling in unheated air at the end of the cycle to reduce wrinkling. Press the Wrinkle Prevent button to activate this feature. The indicator light above the pad will illuminate when Wrinkle Prevent is selected. The load is dry, and can be removed at any time during the Wrinkle Prevent cycle. **My Cycle** – Choose your favorite cycle including cycle, temp, dry level option, etc. (Refer to the "**My cycle**" section on page 33.) **Rack Dry** – Rack Dry is available in the Time Dry cycle. Temperature will be set to Extra Low only. (Refer to the "**Rack Dry**" section on page 34.) **Mixed Load Bell** - This is an alarm that notifies you when the average dry level is damp dry (80% dried). This is useful when the laundry contains various types of clothing you do not want to dry completely. An alarm sounds for 5 seconds. Note that the dryer will continue to run unless you pause or stop it. This function can only be selected in the Sensor Dry course, and the dry level can only be selected from among Normal Dry, More Dry, and Very Dry.
9 **Start/Pause selection button**	Press to pause and restart programs.
10 **Power button**	Press once to turn your dryer on. Press again to turn it off. If your dryer is left on for more than 10 minutes without any buttons being touched, the power automatically turns off.

DV455-02836F-02_EN_20120625.indd Sec3:31 2012-06-25 □□ 5:21:07

Operating instructions, tips

Child lock

Prevents children from playing with your dryer.

Setting/Releasing

To turn Child Lock on or off, press both the **Temp.** and **Time** buttons simultaneously for 3 seconds.

Child Lock Details

1. You can turn Child Lock on while your dryer is running.
2. Once you set the Child Lock function, no button, except for the Power button, will respond until you turn off the Child Lock function.
3. The "Child Lock" indicator will be lit.

- If the dryer is powered on again, the Child Lock function stays on.
- To turn off Child Lock, follow the instructions above.

When other buttons, except for the **Power** button, do not respond, check the Child Lock indicator. If Child Lock is on, follow the instructions above to turn Child Lock off.

Delay Start

You can set the dryer to start your course automatically at a later time by choosing a delay time. The hour displayed indicates the time at which the course will be started.

1. Set your drying course.
2. Press the **Delay Start** button repeatedly until the delay time is set.
3. Press the **Start/Pause** button. The "Delay Start" indicator will be lit, and the clock will begin counting down until it reaches the set time.
4. To cancel a Delay Start function, press the **Power** button and then turn the dryer on again.

Drum Light

Lights the dryer drum while the dryer is running.

Turning On and Off

To turn on or turn off the Drum Light, press both the **Dry Level** and **Temp.** buttons simultaneously.

You can turn the Drum Light on and off while your dryer is running and when it is stopped. If you do not turn the Drum Light off 5 minutes after turning it on, the Drum Light is automatically turned off.

DV455-02836F-02_EN_20120625.indd Sec3:32 2012-06-25 □□ 5:21:07

My cycle

Lets you select, save, and then activate a customized cycle that includes Dry Level , Temp, Time option, etc. at a later time.

To use My Cycle, follow these steps:

1. Push the **My Cycle** button. The My Cycle indicator lights.
2. Select the cycle you want to include using the Cycle Selector Dial.
3. Select and set the options (Dry Level, Temp, Time, etc.)

Each cycle has certain default options that are automatically set. To see these default options, go to page 37.

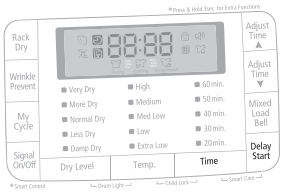
4. Push the **Start/Pause** button. The cycle starts.
5. As the dryer moves through the cycle, it memorizes the cycle and the options.
6. To run this cycle again at a later time, press the **My Cycle** button. The dryer automatically selects the saved cycle and options.

You can change the My Cycle settings by repeating the process above. The dryer will use these settings the next time you choose My Cycle.

Smart Care

This function enables you to check the status of the dryer using a smartphone.

1. Press and hold the **Time** and **Delay Start** buttons for 3 seconds when an error occurs or if you haven't pressed any buttons on the dryer after you turned the power on.
2. When the Smart Care function is activated, the LED on the window display rotates for 2 or 3 seconds and then the error code will appear in the display panel.
3. Run the **Smart Care app** on your smart phone.



The Smart Care function is optimized with Galaxy S, Galaxy S2, iPhone 4 and iPhone 4S.

4. If the smart phone's camera is focused on the display panel of the dryer, the panel and error message is automatically recognized and the error type and countermeasures are displayed on the smart phone.
5. If the smartphone fails to recognize the error code more than twice, please enter the error code displayed on the display panel of the dryer manually into the Smart Care app.

Downloading the Smart Care app

Download the Samsung Laundry App into your mobile phone from the Android market or Apple App store. (Search word :Samsung Smart Washer/Dryer)

Precautions when using Smart Care

- If light from a light bulb, fluorescent bulb, or lamp is reflected on the display panel of the washing machine, the smartphone may not be able to recognize the panel or error message easily.
- If you hold the smartphone at too large an angle relative to the front of the display panel, it may not be able to recognize the error code. For best results, hold the smartphone so that the front of the panel and the smartphone are parallel or nearly parallel.

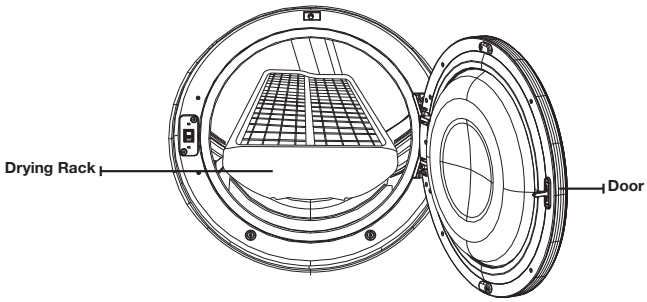
DV455-02836F-02_EN_20120625.indd Sec3:33 2012-06-25 □□ 5:21:07

Operating instructions, tips

RACK DRY

Installing the drying rack

1. Open the dryer door.
2. Position the drying rack in the tumbler,, placing the front lip of the drying rack on the top of the lint filter.
3. Place the rear legs in the two recessed areas of the dryer's back wall, and then push down the middle of the drying rack to fix in place.
4. Place the items to be dried on the rack, leaving space between them so air can circulate.
5. Close the dryer door.
6. Press the **Rack Dry** button in the Time Dry cycle and then select the time according to the amount of moisture and the weight of the items. The drying rack can be also used at Air Fluff cycle.



SUGGESTED ITEMS	SUGGESTED TEMP. SETTINGS
Washable sweaters (block to shape and lay flat on rack)	Extra Low (Time Dry cycle)
Stuffed toys (cotton or polyester fiberfilled)	Extra Low (Time Dry cycle)
Stuffed toys (foam or rubber-filled)	Air Fluff
Foam rubber pillows	Air Fluff
Sneakers	Air Fluff

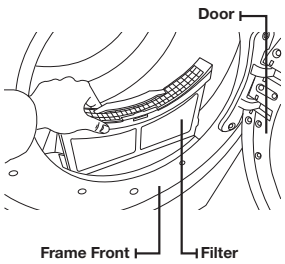
Drying foam rubber, plastic, or rubber on a heat setting may cause damage to the items and lead to a fire hazard.

DV455-02836F-02_EN_20120625.indd Sec3:34 2012-06-25 □□ 5:21:08

CLEAN THE LINT FILTER

- After each load.
- To shorten drying time.
- To operate more energy efficiently.

Do not operate your dryer without the lint filter in place.



LOAD THE DRYER PROPERLY

- Place only one washload in your dryer at a time.
- Mixed loads of heavy and lightweight fabrics will dry differently, which may result in lightweight fabrics being dry while heavy fabrics remain damp at the end of a drying cycle.
- Add one or more similar items to your dryer when only one or two articles of clothing need drying. This improves the tumbling action and drying efficiency.
- Overloading restricts tumbling action, resulting in uneven drying as well as excessive wrinkling of some fabrics.

GETTING STARTED

1. Load your dryer loosely – DO NOT overload.
2. Close the door.
3. Select the appropriate cycle and options for the load.
4. Press the Start/Pause button.
5. The dryer indicator light will illuminate.
6. The estimated cycle time will appear in the display.
   The time may fluctuate as humidity levels fluctuate in the dryer.

- When the cycle is complete, “End” will appear in the display.
- Pressing Power cancels the cycle and stops your dryer.
- The Drying, Cooling, and Wrinkle Prevent indicator lights will illuminate during those portions of the cycle.

WARNING Do not place anything on top of your dryer while it is running.

DV455-02836F-02_EN_20120625.indd Sec3:35 2012-06-25 □□ 5:21:09

VENT SENSOR

Your Samsung dryer is equipped with a Vent Sensor, which detects and notifies you when it is time to clean the ductwork. Keep your dryer safe and efficient by cleaning the ducts when prompted.

The Vent Sensor detects any duct blockages

You can figure out whether there is a duct blockage from the "Vent Sensor" lamp of the digital display.

Level	Message	Status	Solution
0	The "Vent Sensor" lamp is turned off.	The ductwork is free from blockages.	-
1	The "Vent Sensor" lamp illuminates.	When a part of the duct or the lint filter is blocked by lint or a foreign object. When the resistance is high because the duct is too long or bent.	Check the duct connection and shorten the duct and straighten it if necessary. Check the lint filter or the duct and clean it if necessary.
2	The "Vent Sensor" lamp blinks.	When the duct is blocked by lint or a foreign object. When the resistance is very high because the duct is too long or bent excessively.	Check the duct connection and shorten the duct and straighten it if necessary. Check the lint filter or the duct and clean it as soon as possible.

In the LEVEL 2 state, this lamp blinks for 3 hours after the completion of the cycle. (If the wrinkle prevention function is activated, this message is displayed for up to 3 hours.)

If the power button is pressed or the door is opened, the power is immediately turned off.

For more information about the duct installation, please refer to the "Ducting requirements" section on page 13.

- Although the dryer is available even if the blockage message is displayed, the drying time may be extended.
- If the LEVEL 1 message is displayed the first time the dryer is run after the installation, check the connection and clean the duct. If the LEVEL 1 message appears even after you have checked and cleaned the ducts, this may indicate that there are some restrictions of the duct due to the length, condition, etc.
  If this occurs, you can use the dryer normally and no countermeasures need to be taken. However, the drying time may be extended or the drying performance may be degraded.

DV455-02836F-02_EN_20120625.indd Sec3:36 2012-06-25 □□ 5:21:09

SETTING UP SMART CONTROL AND SMART MONITORING

Connect a wired/wireless router or modem and the dryer through a wireless connection, connect to www.samsungsmartappliance.com and then register the dryer with the Smart Control, the Smart Monitoring service.

The Smart Control function of the electronic model contains the Smart Monitoring function of gas model,

Any actions on your dryer will turn off the Smart Control Function.(Opening Door, Tapping the LCD panel, Pushing Buttons, Etc...)

This product does not contain a wireless router.

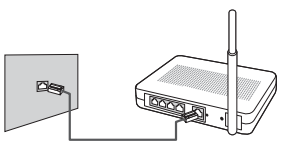
Configuring wireless router/modem

- This product supports DHCP (Dynamic Host Configuration Protocol). If you wants to use an existing wireless router/modem, you must turn on the router/modem's DHCP server or function.
- Set the channel for the connection with the wireless router/modem to a channel that is not being used.
- The dryer supports the WEP, TKIP or TKIP AES encryption types only. Other Wi-Fi encryption types are not supported.
- The quality of the wireless network may be affected by the surrounding environment.
- If your Internet service provider has registered and fixed the MAC address (the unique identification number of a device) of your PC or modem, you may not be able to connect the dryer to the Internet. Please ask your Internet service provider about the procedures to connect a device (e.g. dryer) other than a computer to the Internet. If your Internet service provider requires an ID and password to connect to the Internet, you may not be able to connect the dryer to the Internet. In this case, you have to enter the ID and password to connect to the Internet.

  You may not be able to connect to the Internet due to a firewall. In this case, ask your Internet service provider for assistance.If you cannot connect the dryer to the Internet even after contacting your Internet service provider, please contact a Samsung Electronics dealer or service center.

Check before installation

- For the procedures to install a normal wired/wireless sharer, refer to the user manual of the corresponding wireless router/modem.
- Samsung dryers only support Wi-Fi 2.4Ghz.
- Samsung dryers support IEEE 802.11 b/g/n and Wi-Fi Direct (IEEE802.11n is recommended).
- If the wireless router/modem is not Wi-Fi certified, it cannot be connected to the dryer.



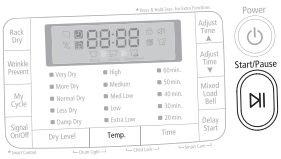
DV455-02836F-02_EN_20120625.indd Sec3:37 2012-06-25 □□ 5:21:09

Operating instructions, tips

Connecting to the network using the WPS setting

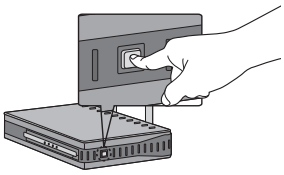
Your Samsung dryer uses Wi-Fi Protected Setup/Push Button Configuration WPS(PBC) as the primary method of connecting to a wireless router or modem. If your router or modem is WPS compliant and has a WPS button, you can easily connect your washer to your router/modem.

1. Press and hold both the **Temp.** and **Start/Pause** buttons for 3 seconds.
2. Turn the **Cycle Selector** until “UP” is displayed on the display panel, and then press the **Start/Pause** button.



   If the connection is not established within 5 minutes, “FUP” is displayed on the display panel.

3. Press and hold the **WPS** button on the wireless router/modem within 120 seconds to run the WPS function.
   If the WPS function runs, the wireless router/modem automatically fetches the necessary information from the dryer and the dryer is automatically connected to the Internet through the wired/wireless router/modem.

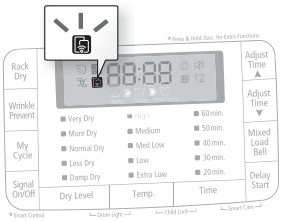


- The way the WPS function runs on your wireless router/modem may differ depending on the manufacturer. Refer to the user manual of your router/modem for details.
- Even after the WPS setup is complete, it may take some time until the actual connection is established and an IP address is allocated through through DHCP (up to 5 minutes).

CAUTION

- Note that if you use a wireless router/modem that is not WPS-certified, the dryer may not be connected through Wi-Fi or another device that was connected to the wireless router/modem may be disconnected.
- Please note that for some wireless router/modem, if you press and hold the WPS button for some time, the settings of the router/modem may be reset.

4. If the dryer and the wireless router/modem are properly connected, the indicator blinks on the display panel for 30 seconds.
5. Press and hold the **Signal On/Off** button for 3 seconds to finish the Smart Control connection setup. When the setup is completed normally, the indicator blinks on the display panel accompanied by a beeping sound.



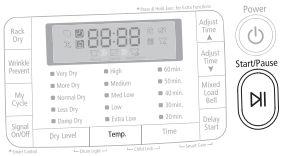
   If you press and hold the **Signal On/Off** button for 3 seconds when the dryer and the wired/wireless sharer are not properly connected, the invalid button sound is heard and the Smart Control connection setup is not completed.

DV455-02836F-02_EN_20120625.indd Sec3:38 2012-06-25 □□ 5:21:09

Connecting to the network using the Samsung Laundry App

1. Press and hold both the **Temp.** and **Start/Pause** buttons for 3 seconds.
2. If “AP” is displayed on the display panel, press the **Start/Pause** button.

If the connection is not established within 5 minutes, “FAP” is displayed on the display panel.



DV455-02836F-02_EN_20120625.indd Sec3:39 2012-06-25 □□ 5:21:13

Operating instructions, tips

USING THE MOBILE APP (ANDROID)

Downloading the phone application

1. Touch and bring up the applications menu on your phone. Then find and open the “Play Store” icon.



2. Once the “Play Store” has been open, do a search.



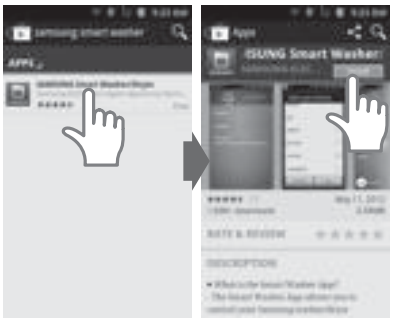
3. Once the search box appears type in “Samsung Smart Washer”.



DV455-02836F-02_EN_20120625.indd Sec3:40 2012-06-25 □□ 5:21:14

4. Once the search is complete the App "SAMSUNG Smart Washer/Dryer" will be displayed. You need to download this App to your phone.

Make sure the app changes from "Free" to "Installed"



5. Once the phone app has been downloaded to your phone, you are now ready to set up the washer Wi-Fi control.



STEP 1

Figure 1

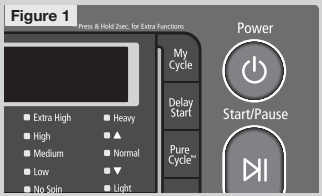
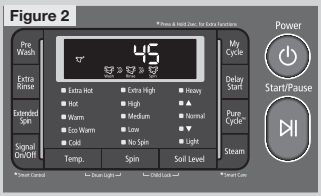


Figure 2



You need to first press the power button to activate the your machine. You can activate the machine to any wash cycle. (See figures 1~2)

STEP 2

Figure 3

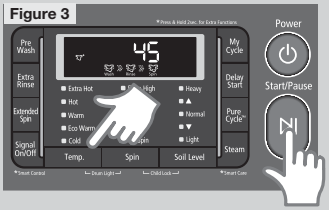
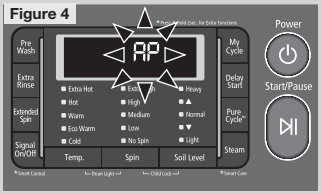


Figure 4



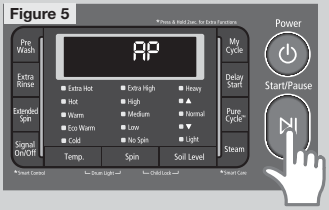
After you activate the machine, press the Temp & Start/Pause buttons simultaneously for 5 seconds. After 5 seconds the "AP" menu appears on the LED screen. (See figures 3~4)

DV455-02836F-02_EN_20120625.indd Sec3:41 2012-06-25 5:21:14

Operating instructions, tips

STEP 3

Figure 5



After the AP menu appears on the LED screen, wait approximately 1 minute and press the Start/Pause button. Once the Start/Pause button is pressed the “AP” displayed on the LED screen should start to blink.

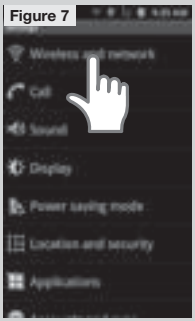
It will take a minute or so for the Wi-Fi module to get ready. So if the you press the Start/Pause and the “AP” doesn’t blink try again after a moment. (See figure 5)

STEP 4

Figure 6



Figure 7



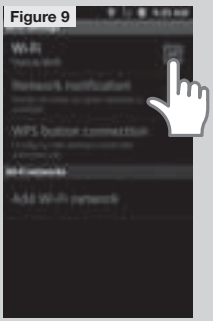
Once the “AP” is blinking go to your mobile phone and press the “Settings” icon. Once the settings menu appears press the wireless and network section. (See figures 5~7)

STEP 5

Figure 8



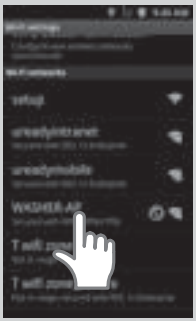
Figure 9



After selecting the wireless and network select Wi-Fi setting. Then turn on the Wi-Fi. (See figures 8~9)

DV455-02836F-02_EN_20120625.indd Sec3:42 2012-06-25 □□ 5:21:14

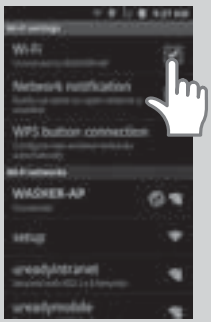
STEP 6





Once the list of available networks appears, select the network to be used and enter the password if necessary.

STEP 7





Once you are connected to the selected network go back to the applications screen on your mobile phone. Once you are in the phones application screen touch the Samsung icon “SAMSUNG Smart Washer/Dryer” that was downloaded at the beginning of this process.

STEP 8





After opening the Samsung app, select “Front Load” and then “Connection Setup”.

DV455-02836F-02_EN_20120625.indd Sec3:43 2012-06-25 □□ 5:21:15

Operating instructions, tips

STEP 9





Once the mobile app is open select the “Setting Start” key.

The Wi-Fi indicator will blink on & off on the phone several times.

STEP 10





Once the unit starts connecting the phone will load the AP list. When the AP list is loaded you need to select the network.

Please make sure the app and smart phone are connected to the same network/wireless AP.

STEP 11





After selecting the network you need to enter your password. Once you enter your password select “Connect”. The unit start setting up the network. This process delivers the connection information of the “AP” that is connected to the mobile phone to the product.

DV455-02836F-02_EN_20120625.indd Sec3:44 2012-06-25 □□ 5:21:15

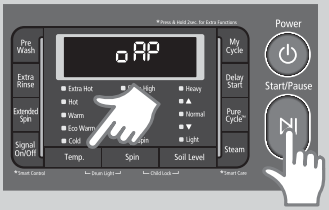
STEP 12

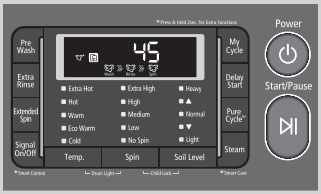




When the network is setup the unit will display “Transfer complete”. After the transfer is completed select “Confirm”. The unit will then display “oAP”. The phone is now connected to the machine through the network.

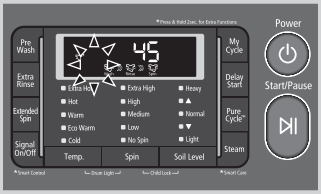
STEP 13

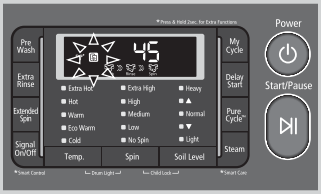




After the phone is connected to the machine, press the Temp & Start/Pause buttons simultaneously for 5 seconds. After 5 seconds the original wash cycle will be displayed on the LED screen.

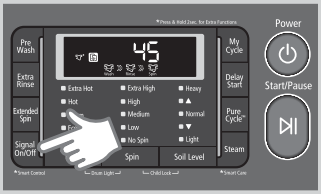
STEP 14

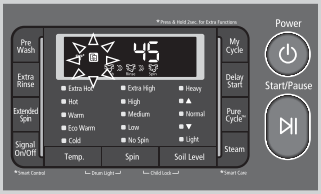




After the wash cycle has been displayed wait approximately 1 minute. You will then see the Wi-Fi icon start to blink.

STEP 15





Once the Wi-Fi icon is displayed press and hold the “Signal” for 3 seconds. The Wi-Fi icon will stop blinking. The machine is now ready to run the device certification.

DV455-02836F-02_EN_20120625.indd Sec3:45 2012-06-25 □□ 5:21:15

Operating instructions, tips

Device certification

1. The “Device Certification” only needs to be run with the initial setup. Touch the “Indoor Control” tab to search for the washer’s name. Once the washer ‘s name is displayed touch tab.

Figure 1

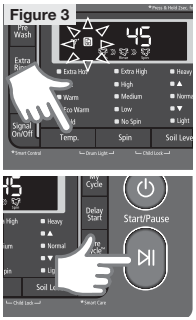


Figure 2



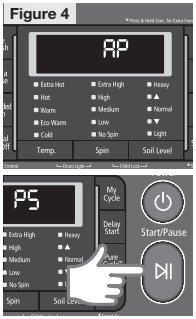
2. Verify the that the Wi-Fi icon is not blinking. Press the Temp & Start/ Pause buttons simultaneously for 5 seconds. “AP” will now be displayed.

Figure 3



3. Once the “AP” is displayed you need to turn the knob counter clockwise until “PS” is displayed. After the “PS” is displayed press the Start/Pause button.

Figure 4



DV455-02836F-02_EN_20120625.indd Sec3:46 2012-06-25 □□ 5:21:16

4. After you the touch the washer name tab you need to touch the confirm tab to proceed with the certification.

Figure 5



5. After you touch the confirm tab you will now start preparing the certification.

Figure 6



6. Follow the instructions displayed on the phone to start the washer setup.

Figure 7



DV455-02836F-02_EN_20120625.indd Sec3:47 2012-06-25 □□ 5:21:17

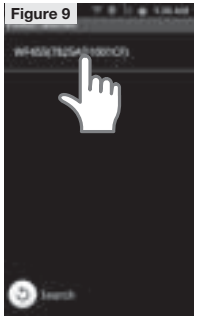
7. Once the Start/Pause button is pressed the “PS” will start to blink. Once it starts blinking the phone will automatically start to connect.

Figure 8



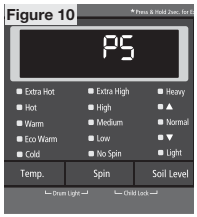
8. The washer name will be displayed once again. You need to press this tab to display the “PS”.

Figure 9



9. After you touch the washer name tab, “PS” will be displayed.

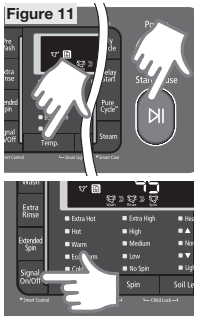
Figure 10



10. After the “AP” is displayed, press the Temp & Start/Pause buttons simultaneously for 3 seconds. Now press and hold the Signal button to stop the Wi-Fi icon from blinking.

Once the Wi-Fi connection is established, begin at figure #8 to reconnect to the same network/wireless AP.

Figure 11



DV455-02836F-02_EN_20120625.indd Sec3:48 2012-06-25 □□ 5:21:17

11. Press the washer name tab to connect to the washer.

Figure 12



12. The washer is now connected. Touch the “Start New Wash” tab and you can now control the washer from your phone.

Figure 13



13. The Device Certification is now completed and the washer is connected to your Smartphone.

Figure 14



DV455-02836F-02_EN_20120625.indd Sec3:49 2012-06-25 □□ 5:21:17

Operating instructions, tips

Using the mobile app

STEP 1



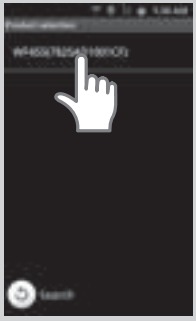


Check to make sure the Wi-Fi icon is not blinking. If the icon is blinking press and hold the Signal button until the icon stops blinking. Once the door lock icon is activated the unit is ready. Now press the “SAMSUNG Smart Washer/Dryer” icon.

STEP 2







After you touch the “SAMSUNG Smart Washer/Dryer” icon the will search for the washer. Once the phone connects the washer, the washer ‘s name, or “MAC” will appear. Now touch the washer name.

STEP 3

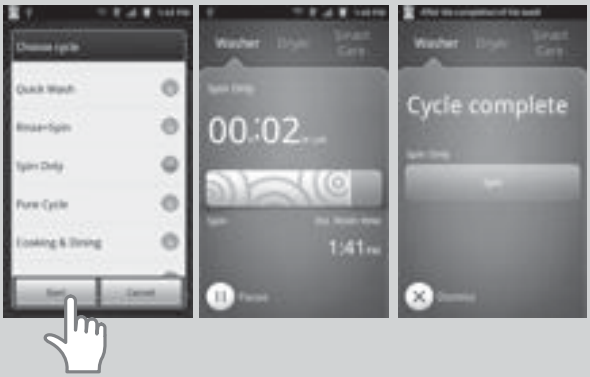




Once the connection is established , touch the “Start New Wash” tab. The unit should display the “Choose Cycle” screen. Once Choose Cycle screen is displayed touch the “Start” tab at the bottom left.

DV455-02836F-02_EN_20120625.indd Sec3:50 2012-06-25 □□ 5:21:17

STEP 4



Now touch the “Start” button and activate the wash cycle. You can monitor the wash cycle to check the status of the cycle. Once the cycle is finished the phone will display “Cycle Complete”.

DV455-02836F-02_EN_20120625.indd Sec3:51 2012-06-25 □□ 5:21:18

USING THE MOBILE APP (IOS)

Downloading the phone application

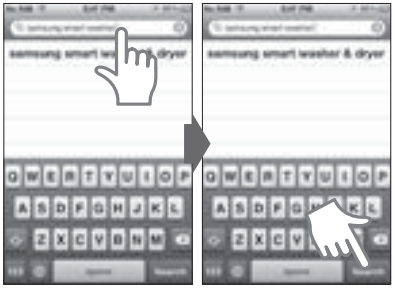
1. Find and open the “App Store” icon.



2. Once the “App Store” has been open, do a search.



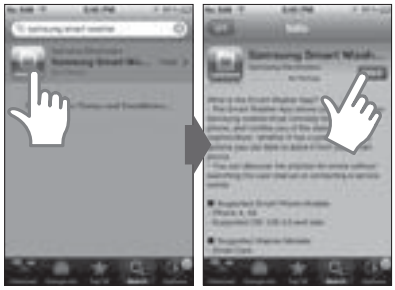
3. Once the search box appears type in “Samsung Smart Washer”.



DV455-02836F-02_EN_20120625.indd Sec3:52 2012-06-25 □□ 5:21:18

4. Once the search is complete the App "SAMSUNG Smart Washer/Dryer" will be displayed. You need to download this App to your phone.

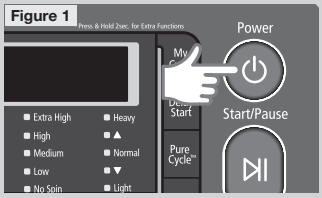
Make sure the app changes from "Free" to "Installed"

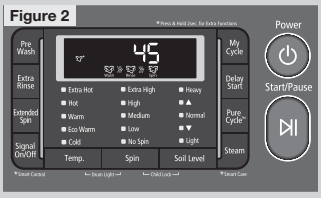


5. Once the phone app has been downloaded to your phone, you are now ready to set up the washer Wi-Fi control.



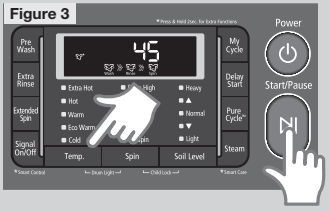
STEP 1

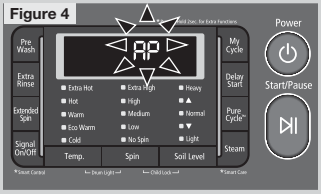




You need to first press the power button to activate the your machine. You can activate the machine to any wash cycle. (See figures 1~2)

STEP 2





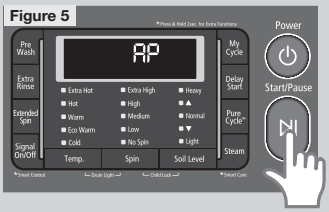
After you activate the machine, press the Temp & Start/Pause buttons simultaneously for 5 seconds. After 5 seconds the "AP" menu appears on the LED screen. (See figures 3~4)

DV455-02836F-02_EN_20120625.indd Sec3:53 2012-06-25 □□ 5:21:18

Operating instructions, tips

STEP 3

Figure 5



After the AP menu appears on the LED screen, wait approximately 1 minute and press the Start/Pause button. Once the Start/Pause button is pressed the “AP” displayed on the LED screen should start to blink.

It will take a minute or so for the Wi-Fi module to get ready. So if the you press the Start/Pause and the “AP” doesn’t blink try again after a moment. (See figure 5)

STEP 4

Figure 6

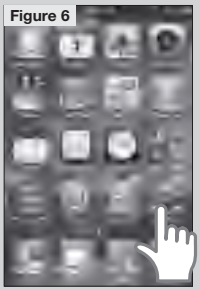
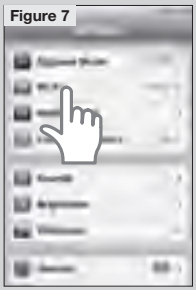


Figure 7



Once the “AP” is blinking go to your mobile phone and press the “Settings” icon. Once the settings menu appears press the Wi-Fi icon. (See figures 5~7)

STEP 5

Figure 8

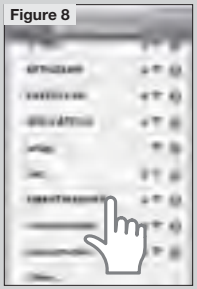


Figure 9



You can see “SMARTWASHER” in the Wi-Fi list. Select the SMARTWASHER and input the password(WASHER2012).

You have to input as Capital.

After typing the password, select the join button. (See figures 8~9)

STEP 6





Once you are connected to the selected network go back to the applications screen on your mobile phone. Once you are in the phones application screen touch the Samsung icon “SAMSUNG Smart Washer/Dryer” that was downloaded at the beginning of this process.

DV455-02836F-02_EN_20120625.indd Sec3:54 2012-06-25 □□ 5:21:19

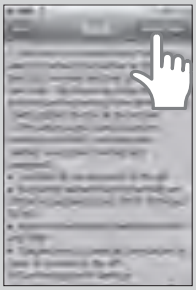
STEP 7





After opening the Samsung app, select “Front Load” and then “Connection Setup”.

STEP 8







Tap the “Setting Start” and input your SSID, Authentication Type, Encryption Type, password of AP.

This process delivers the connection information of the “AP” that is connected to the mobile phone to the product.

Check the security option of the router and then set the wireless network configuration again as below.

- select the Security mode : WPA and Encryption:TKIP
- select the Security mode : WPA2 and Encryption:AES
- refer to wireless router manual for the security option of the wireless router.

STEP 9





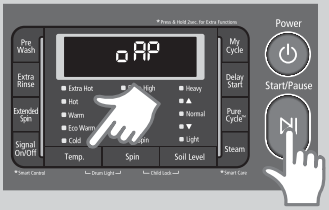


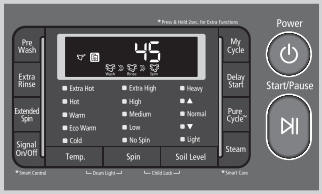
When the network is setup the unit will display “Transfer complete”. After the transfer is completed select “Confirm”. The unit will then display “oAP”. The phone is now connected to the machine through the network.

DV455-02836F-02_EN_20120625.indd Sec3:55 2012-06-25 □□ 5:21:19

Operating instructions, tips

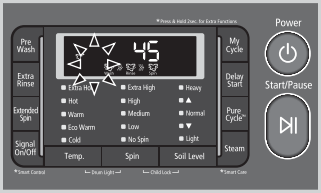
STEP 10

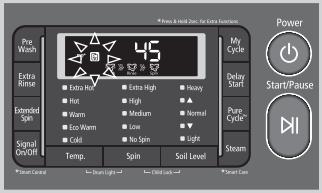




After the phone is connected to the machine, press the Temp & Start/Pause buttons simultaneously for 5 seconds. After 5 seconds the original wash cycle will be displayed on the LED screen.

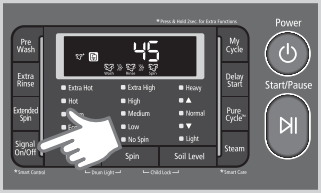
STEP 11

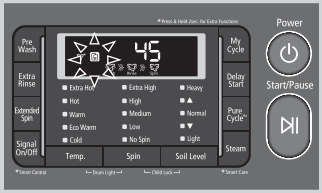




After the wash cycle has been displayed wait approximately 1 minute. You will then see the Wi-Fi icon start to blink.

STEP 12





Once the Wi-Fi icon is displayed press and hold the “Signal” for 3 seconds. The Wi-Fi icon will stop blinking. The machine is now ready to run the device certification.

DV455-02836F-02_EN_20120625.indd Sec3:56 2012-06-25 □□ 5:21:20

Device certification

1. The “Device Certification” only needs to be run with the initial setup. Touch the “Indoor Control” tab to search for the washer’s name. Once the washer ‘s name is displayed touch tab.

Figure 1

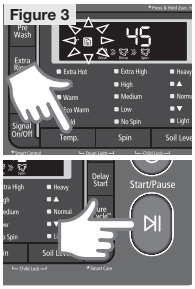


Figure 2



2. Verify the that the Wi-Fi icon is not blinking. Press the Temp & Start/ Pause buttons simultaneously for 5 seconds. “AP” will now be displayed.

Figure 3



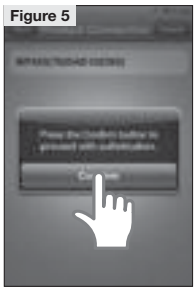
3. Once the “AP” is displayed you need to turn the knob counter clockwise until “PS” is displayed. After the “PS” is displayed press the Start/Pause button.

Figure 4



4. After you the touch the washer name tab you need to touch the confirm tab to proceed with the certification.

Figure 5



DV455-02836F-02_EN_20120625.indd Sec3:57 2012-06-25 □□ 5:21:21

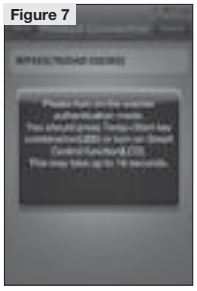
5. After you touch the confirm tab you will now start preparing the certification.

Figure 6



6. Follow the instructions displayed on the phone to start the washer setup.

Figure 7



7. Once the Start/Pause button is pressed the “PS” will start to blink. Once it starts blinking the phone will automatically start to connect.

Figure 8



8. The washer name will be displayed once again. You need to press this tab to display the “PS”.

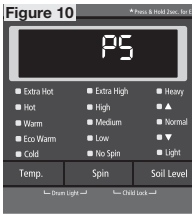
Figure 9



DV455-02836F-02_EN_20120625.indd Sec3:58 2012-06-25 □□ 5:21:22

9. After you touch the washer name tab, “PS” will be displayed.

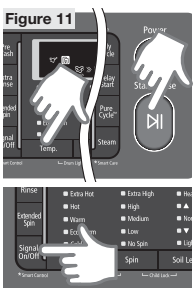
Figure 10



10. After the “AP” is displayed, press the Temp & Start/Pause buttons simultaneously for 3 seconds. Now press and hold the Signal button to stop the Wi-Fi icon from blinking.

Once the Wi-Fi connection is established, begin at figure #8 to reconnect to the same network/wireless AP.

Figure 11



11. Press the washer name tab to connect to the washer.

Figure 12



12. The washer is now connected. Touch the “Start New Wash” tab and you can now control the washer from your phone.

Figure 13



DV455-02836F-02_EN_20120625.indd Sec3:59 2012-06-25 □□ 5:21:22

13. The Device Certification is now completed and the washer is connected to your Smartphone.

Figure 14



Using the mobile app

STEP 1





Check to make sure the Wi-Fi icon is not blinking. If the icon is blinking press and hold the Signal button until the icon stops blinking. Once the door lock icon is activated the unit is ready. Now press the “SAMSUNG Smart Washer/Dryer” icon.

STEP 2







After you touch the “SAMSUNG Smart Washer/Dryer” icon the will search for the washer. Once the phone connects the washer, the washer ‘s name, or “MAC” will appear. Now touch the washer name.

DV455-02836F-02_EN_20120625.indd Sec3:60 2012-06-25 □□ 5:21:23

STEP 3



Once the connection is established , touch the “Start New Wash” tab. The unit should display the “Choose Cycle” screen. Once Choose Cycle screen is displayed touch the “Start” tab.

STEP 4



Now touch the “Start” button and activate the wash cycle. You can monitor the wash cycle to check the status of the cycle. Once the cycle is finished the phone will display “Cycle Complete”.

DV455-02836F-02_EN_20120625.indd Sec3:61 2012-06-25 5:21:23

Operating instructions, tips

REGISTERING YOUR DRYER

1. Access **Samsung Smart appliance** website.
   (http://www.samsungsmartappliance.com)
2. Enter your User ID and Password to log in.

   If you don't have an account, press "**Create a Samsung account**" and fill in the form to become a member.
3. Select "**My page**" → "**My page**".



4. Select "**Add device**".



5. Find the MAC number on your dryer and enter it into the device page.
   On your dryer:
   1) Press and hold both the **Temp.**, and **Start/Pause** buttons for 3 seconds.
   2) Turn the Cycle Selector until "Ad" is displayed on the display panel and press the **Start/Pause** button. The MAC address appears.
   3) Find out 12 Hexadecimal Address, pressing **Start/Pause** buttons for 2 digit & text.
6. Click "**Certify device**".



DV455-02836F-02_EN_20120625.indd Sec3:62 2012-06-25 □□ 5:21:24

7. Press and hold both the **Temp.**, and **Start/Pause** buttons for 3 seconds.
8. Turn the Cycle Selector until PS is displayed on the display panel, and then the **Start/Pause** button.
9. When certify device checking window appears, click "**Ok**".

   If the dryer you are registering is already registered by other users, a window will come on asking whether you want to delete the usage authority of the existing users or not.



10. After the registration of the dryer is completed, you can view the registered dryer on the device information list.

Mac Address : Mapping Table of 7-Segment

0	1	2	3	4	5	6	7	8	9
A	b	C	d	E	F				

Mac Address Example	Mac Label	**90A4DE89B2D3**
	7-Segment	90A4dE89b2d3

DV455-02836F-02_EN_20120625.indd Sec3:63 2012-06-25 □□ 5:21:24

Care and Cleaning

CONTROL PANEL

Clean with a soft, damp cloth. Do not use abrasive substances.
Do not spray cleaners directly on the panel.
The control panel finish may be damaged by some laundry pre-treatment soil and stain remover products.
Apply such products away from your dryer and wipe up any spills or overspray immediately.

TUMBLER

Remove any stains caused by crayon, ink, or fabric dye (from new items such as towels or jeans) with an all-purpose cleaner.
Tumble old towels or rags to remove any remaining stain or cleaning substance.
Once these steps are followed, stains may still be visible, but should not transfer to subsequent loads.

STAINLESS STEEL TUMBLER

To clean the stainless steel tumbler, use a damp cloth with a mild, non-abrasive cleaner suitable for stainless steel surfaces.
Remove the cleaner residue and dry with a clean cloth.

DRYER EXTERIOR

Clean with a soft, damp cloth. Do not use abrasive substances.
Protect the surface from sharp objects.
Do not place any heavy or sharp objects or a detergent box on the dryer. Keep them on the purchased pedestal or in a separate storage box. This may scratch or damage the top cover of the dryer.
Since the entire dryer has a high-gloss finish, the surface can be scratched or damaged.
Avoid scratching or damaging the surface when using the dryer.

DRYER EXHAUST SYSTEM

Should be inspected and cleaned yearly to maintain optimum performance.
The outside exhaust hood should be cleaned more frequently to ensure proper operation.

DV455-02836F-02_EN_20120625.indd Sec5:64 2012-06-25 □□ 5:21:25

Special laundry tips

SPECIAL LAUNDRY TIPS

Please follow the care label or manufacturer's instructions for drying special items. If care label instructions are not available, use the following information as a guide.

Bedspreads & Comforters	• Follow the care label instructions or dry on the Bedding Plus. • Make sure the item is thoroughly dry before using or storing. • May require repositioning to ensure even drying.
Blankets	• Use Normal cycle and dry only one blanket at a time for best tumbling action. • Make sure the item is thoroughly dry before using or storing.
Curtains & Draperies	• Use the Perm Press cycle and Low or Extra Low temperature to help minimize wrinkling. • Dry these in small loads for best results and remove as soon as possible.
Cloth Diapers	• Use the Normal cycle and the High temperature settings for soft,fluffy diapers.
Down–filled Items (jackets, sleeping bags, comforters, etc.)	• Use the Normal cycle and the Low or Extra Low temperature setting. • Adding a couple of dry towels shortens drying time and absorbs moisture.
Foam Rubber (rug backs, stuffed toys, shoulder pads, etc.)	• DO NOT dry on a heat setting. Use the Air Fluff cycle (no heat). • WARNING – Drying a rubber item with heat may damage it or be a fire hazard.
Pillows	• Use the Normal cycle. • Add a couple of dry towels and a pair of clean sneakers to help the tumbling action and to fluff the item. • DO NOT dry kapok or foam pillows in dryer. Use the Air Fluff cycle.
Plastics (shower curtains, outdoor furniture covers, etc.)	• Use the Air Fluff cycle or the Time Dry cycle and the Low or Extra Low temperature settings depending on the care label instructions.

THINGS TO AVOID PUTTING IN THE DRYER:

- Fiberglass items (curtains, draperies, etc.).
- Woolens, unless recommended on the label.
- Vegetable or cooking oil-soaked items.

DV455-02836F-02_EN_20120625.indd Sec4:65 2012-06-25 □□ 5:21:25

Troubleshooting

CHECK THESE POINTS IF YOUR DRYER…

PROBLEM	SOLUTION
Doesn't run.	• Make sure the door is latched shut. • Be sure the power cord is plugged into a live electrical outlet. • Check the home's circuit breaker and fuses. • Press the Start/Pause button again if the door is opened during the cycle.
Doesn't heat.	• Check the home's circuit breaker and fuses. • Select a heat setting other than Air Fluff. • On a gas dryer, check that the gas supply is on. • Clean the lint filter and exhaust duct. • Dryer may have moved into the cool-down phase of the cycle.
Doesn't dry.	• Check all of the above, plus... • Be sure the exhaust hood outside the home can open and close freely. • Check exhaust system for lint buildup. Ducting should be inspected and cleaned annually. • Use a 4" rigid metal exhaust duct. • Do not overload. 1 wash load = 1 dryer load. • Sort heavy items from lightweight items. • Large, bulky items like blankets or comforters may require repositioning to ensure even drying. • Check that the dryer is draining properly to extract adequate water from the load. • Load may be too small to tumble properly. Add a few towels.
Is noisy.	• Check the load for objects such as coins, loose buttons, nails, etc. Remove promptly. • It is normal to hear the dryer gas valve or heating element cycle on and off during the drying cycle. • Be sure the dryer is leveled properly as outlined in the installation instruction. • It is normal for the dryer to hum due to the high velocity of air moving through the dryer drum and exhaust system.
Dries unevenly.	• Seams, pockets, and other similarly heavy areas may not be completely dry when the rest of the load has reached the selected dryness level. This is normal. Select the Very Dry setting if desired. • If one heavy item is dried with a lightweight load, such as one towel with sheets, it is possible that the heavy item will not be completely dry when the rest of the load has reached the selected dryness level. Sort heavy items from lightweight items for best drying results.
Has an odor.	• Household odors from painting, varnishing, strong cleaners, etc. may enter the dryer with the surrounding room air. This is normal as the dryer draws the air from the room, heats it, pulls it through the tumbler, and exhausts it outside. • When these odors linger in the air, ventilate the room completely before using the dryer.

DV455-02836F-02_EN_20120625.indd Sec6:66 2012-06-25 □□ 5:21:25

PROBLEM	SOLUTION
Shuts off before load is dry	• Dryer load is too small. Add more items or a few towels and restart the cycle. • Dryer load is too large. Remove some items and restart the dryer.
Lint on clothes	• Make sure the lint filter is cleaned before every load. With some loads that produce high amounts of lint, it may be necessary to clean the filter during the cycle. • Some fabrics are lint producers (for example, a fuzzy white cotton towel) and they should be dried separately from clothes that are lint trappers (for example, a pair of lack linen pants) • Divide larger loads into smaller loads for drying • Check pockets thoroughly before washing and drying clothes.
Garments still wrinkled after Wrinkle-Care	• Small loads of 1 to 4 items work best. • Load fewer garments.Load similar-type garments.
Odors remain in clothing after Refresh.	• Fabrics containing strong odors should be washed in a normal cycle.
Water drips from nozzle when Steam-Care starts	• This is steam condensation. The dripping water will stop after a short time.
Sprayed water is not visible during Steam-Care	• Sprayed water is difficult to see when the door is closed

DV455-02836F-02_EN_20120625.indd Sec6:67 2012-06-25 □□ 5:21:25

Troubleshooting

INFORMATION CODES

Information codes may be displayed to help you better understand what is occurring with your Dryer.

ERROR DISPLAY	MEANING	SOLUTION
tE	The thermistor resistance is very low or high.	Clean the screen or vent. If the problem continues, call for service.
tE3	The resistance of the thermistor for the vent blockage detection is very low or very high.	Clean the screen or vent If the problem continues, call for service.
HE	Invalid heating Temp when the dryer is running.	Call for service.
dE	Running the dryer with door open	Clean the door and then restart. If the problem continues, call for service.
bE2	Invalid state of key. Circuit short for 30 secs.	Make sure a button is NOT being pressed continuously. Try restarting the cycle. If the problem continue, call for service.
FE	Invalid power source frequency	Try restarting the cycle. If the problem continues, call for service.
2E	Electronic Control Problem (Over Voltage Error)	Call for service.
AE	Electronic Control Problem (Communication Error)	Call for service.
Et	Invalid state of Eeprom communication	Call for service.
AE4	A communication error between the Wi-Fi PBA and the MAIN PBA	Call customer service.
AE3	A A communication error between the DR Modem and the MAIN PBA	Call customer service.
AE5	A A communication error between the LCD PBA and the MAIN PBA	Call customer service.
dF	Invalid door state for more than 256 milliseconds.	Call for service.

For any codes not listed above, call 1-800-SAMSUNG (726-7864)

DV455-02836F-02_EN_20120625.indd Sec6:68 2012-06-25 □□ 5:21:25

NETWORK SETUP Q&A

QUESTION	ANSWER
The washer or dryer is not found in the smartphone app.	• Check the power status of the access point(AP). • Check if the smartphone is connected with Wi-Fi. • Check if the Wi-Fi function of the washer or dryer is turned on. • To refresh the screen, press “Configure” again. • If the AP is installed too far away from the washer or dryer, the strength of the Wi-Fi signal may be weak. In this case, move the AP closer to the washer or dryer.
The washer or dryer can’t find the AP (access point).	• Check the power status of the AP. • Check if the Wi-Fi function of the washer or dryer is turned on. • To refresh the screen, press “Configure” again. • If the AP is installed too far away from the washer or dryer, the strength of the Wi-Fi signal may be weak. In this case, move the AP closer to the washer or dryer. Ensure that the number of the displayed antenna bars is at least 3. • If the strength of the AP is low, the washer or dryer may not find it. Use a high performance AP if available.
There are more than one washer or dryer in the house. Do I have to install an AP for each of them?	• You can install only one AP. • I you want to one AP for each of the washer and dryer, select the corresponding AP for each of the products in the “Smart Washer” app. • When both a washer and dryer are installed, they can be controlled through one AP.
What kind of AP (access poin) should I use?	• Since the washer or dryer is controlled through the AP from the inside or outside of the house, we recommend a high performance AP. • Use an AP with Wi-Fi certification mark. • Since an AP with 2 or more antennas provides better performance, we recommend purchasing a wireless AP with 2 or more antennas.
How can I check if the AP is out of order?	• Connect to the AP on a smartphone and check if you can connect to the Internet. If you can connect to the Internet, the AP is normal. • Check if the LEDs on the AP are blinking. If all the LEDs are turned off, it indicates that the power is turned off. • If the AP doesn’t seem to be working properly, request after-sales service.
I do not have a PC. Can I use the indoor and outdoor control features?	• If the Internet can be accessed inside of the house, the feature is available. However, you have to sign up on the Samsung web site and resgister the product.
How many users can control a washer or dryer?	• Multiple users can control the washer or dryer only if the “Smart Washer” app is authenticated,

DV455-02836F-02_EN_20120625.indd Sec6:69 2012-06-25 □□ 5:21:25

Troubleshooting

QUESTION	ANSWER
What should I do to get the strongest Wi-Fi signal?	• Install the AP near the washer or dryer is recommended. You can check the signal strength through the setup screen of the washer or dryer or a smartphone. • Since network performance is seriously affected by a door or steel wall, install the washer or dryer in an open place. If there is door in front of the installed product, open the door when using the product. • Do not place an object made with steel or glass in front of the front LCD of the washer since it blocks the radio signal. • Note that the radio signal may be weakened or interfered with and the communication with the smartphone may fail when a microwave oven is used in the house. • Install the washer or dryer so that the front of the product faces the AP if available.
How can I connect the washer or dryer with a smartphone stably?	• When the signal strenth that is displayed on the LCD of the washer or dryer is weak, the control may fail. For stable operation, the measures of signal strength should be as follows: • At least 3 antenna bars should be displayed on the LCD of the washer or dryer. • At least 3 antenna bars for the Wi-Fi connection should be displayed on the smartphone. • When the signal strenth is measured with a smartphone app that shows the Wi-Fi signal strength, the signal strength should be stronger than -65 dBm. (E.g. -60 dBm and -50 dBm are stronger than -65 dBm.)
What should I have to do when the number of the antenna bars that are displayed on the LCD of the washer or dryer is 1?	• When the signal strenth that is displayed on the LCD of the washer or dryer is weak, the control may fail. In this case, take the following measures for normal operation. • Move the AP closer to the washer or dryer. (At least 3 antenna bars should be dislayed in the network setup of the washer for proper operation.) • Because an old AP may provide lower performance, use a new AP if available. • Position the antenna of the AP so that the radio signal is more easily propagated.

DV455-02836F-02_EN_20120625.indd Sec6:70 2012-06-25 □□ 5:21:25

Appendix

FABRIC CARE CHART

The following symbols provide garment care direction. The Clothing care labels include symbols for washing, bleaching, drying, and ironing, or dry cleaning when necessary. The use of symbols ensures consistency among garment manufacturers of domestic and imported items. Follow care label directions to maximize garment life and reduce laundering problems.

Wash Cycle		**Special Instructions**		**Warning Symbols for Laundering**	
	Normal		Line Dry/ Hang to Dry		Do Not Wash
	Permanent Press / Wrinkle Resistant / Wrinkle Control		Drip Dry		Do Not Wring
	Gentle/Delicates		Dry Flat		Do Not Bleach
	Hand Wash	**Heat Setting**			Do Not Tumble Dry
Water Temperature**			High		No Steam (added to iron)
●●●	Hot		Medium		Do Not Iron
●●	Warm		Low	**Dryclean**	
●	Cold		Any Heat		Dry Clean
Bleach			No Heat/Air		Do Not Dry Clean
	Any Bleach (when needed)	**Iron-Dry or Steam Temperatures**			Line Dry/ Hang to Dry
	Only Non-Chlorine (color-safe) Bleach (when needed)		High		Drip Dry
	Tumble Dry Cycle		Medium		Dry Flat
Normal			Low		
	Permanent Press/ Wrinkle Resistant/ Wrinkle Control				
	Gentle/Delicates				

** The dot symbols represent appropriate wash water temperatures for various items. The temperature range for Hot is 105 – 125 °F (41 – 52 °C), for Warm 85 – 105 °F (29 – 41 °C) and for Cold 60 – 85 °F (16 – 29 °C). (Wash water temperature must be a minimum of 60 °F (16 °C) for detergent activation and effective cleaning.)

DV455-02836F-02_EN_20120625.indd Sec7:71 2012-06-25 □□ 5:21:25

Appendix

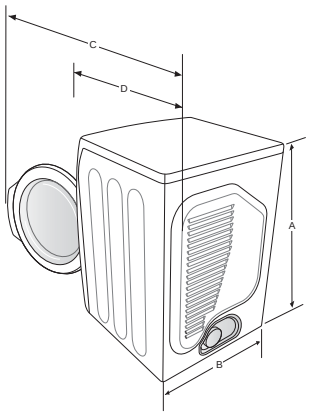
PROTECTING THE ENVIRONMENT

This appliance is manufactured from recyclable materials. If you decide to dispose of this appliance, please observe local waste disposal regulations. Cut off the power cord so that the appliance cannot be connected to a power source. Remove the door so that animals and small children cannot get trapped inside the appliance.

DECLARATION OF CONFORMITY

This appliance complies with UL2158.

SPECIFICATIONS



TYPE		FRONT LOADING DRYER
DIMENSIONS	A. Height	39” (99.0 cm)
	B. Width	27” (68.6 cm)
	C. Depth with door open 90°	51.65” (131.2 cm)
	D. Depth	32.28” (82.0 cm)
WEIGHT		127.8 lb (57 Kg)
HEATER RATING		5300 W (Elec.) 22000 BTU/hr (Gas)

DV455-02836F-02_EN_20120625.indd Sec7:72 2012-06-25 □□ 5:21:26

CYCLE CHART

(●: factory setting, o: selectable)

CYCLE		RECOMMENDED ITEMS	MAXIMUM AMOUNT
Sensor Dry	Normal	Cottons, Work clothes, Linen, Mixed loads	◒
	Heavy Duty	Heavy fabrics such as jean, Corduroys, Heavy work clothes	◒
	Perm Press	Shirts, Synthetic fabrics, Knits, Wrinkle-free cottons, Permanent	◒
	Bedding PLUS	Bulky items such as blankets, Sheets, Comforters, Pillows	◒
	Delicates	Underwear, Blouses, Lingerie	◒
	Sanitize	Bedding, Curtains, Children` clothing	◒
	Eco Normal	Cottons, Work clothes, Linen	◒
	Wool	For machine washable and tumble dryable wool only (Maximum amount : 3lb)	◒
Manual Dry	Air Fluff	Form, Rubber, Plastic	◒
	Quick Dry	Small loads	◒
	Time Dry	Any load	◒
Steam Cycles	Wrinkle Away	Shirts, Trouser, Blouses	◒
	Refresh	Shirts, Trouser, Comforter, Pillows	◒

CYCLE		FUNCTIONS							OPTIONS	
		Sensor Dry Level	Temp. Control					Time	Wrinkle Prevent	Delay Start
			High	Medium	Medium Low	Low	Extra Low			
Sensor Dry	Normal	Normal dry	●	o	o	o	o		o	o
	Heavy Duty	Normal dry	●	o	o	o	o		o	o
	Perm Press	Normal dry			●	o	o		o	o
	Bedding PLUS	Normal dry	●						o	o
	Delicates	Normal dry					●		o	o
	Sanitize	Very dry (No change)	●						o	o
	Eco Normal	Normal dry (No change)*	● (DV455G)*		●				o	o
	Wool	Normal dry (No change)				●			o	o
Manual Dry	Air Fluff	-						o	o	o
	Quick Dry	-	●					o	o	o
	Time Dry	-	●	o	o	o	o	o	o	o
Steam Cycles	Wrinkle Away	-	●					o	o	o
	Refresh	-	●						o	o

* is only Gas model

Load Size Recommendations

◒ **Large load**	Fill the drum to about ¾ full. Do not add items over this level as they need to tumble freely.
◒ **Medium load**	Fill the drum to about ½ full.
◒ **Small load**	Fill the drum with 3~5 items, not more than ¼ full.

For best results, follow the load size recommendations for each drying cycle.

DV455-02836F-02_EN_20120625.indd Sec7:73 2012-06-25 □□ 5:21:26

Appendix

OPEN SOURCE ANNOUNCEMENT

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to:

oss.request@samsung.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution may be charged.
This offer is valid to anyone in receipt of this information.

GPL Software:
Bridge-Utils, BusyBox, DNRD, dosfstools, iproute2, IPTables, Linux Kernel, ntpclient, Open1x, RSDK toolchain, rtl819x - Bootloader, samba, squashfs, udhcp Server-Client Package, USB-ModeSwitch, wireless-tools

LGPL Software:
libnl-Netlink Library, Mini-XML

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.)

You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any

DV455-02836F-02_EN_20120625.indd Sec7:74 2012-06-25 □□ 5:21:26

problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

1. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

2. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

3. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
2) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
3) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written

DV455-02836F-02_EN_20120625.indd Sec7:75 2012-06-25 □□ 5:21:26

entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

4. 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
   1) Accompany it with the complete corresponding machinereadable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
   2) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or, c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

   The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

   If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source

   along with the object code.
5. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
6. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
7. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

DV455-02836F-02_EN_20120625.indd Sec7:76 2012-06-25 □□ 5:21:26

8. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

9. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

10. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and “any later version”, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

11. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

12. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

DV455-02836F-02_EN_20120625.indd Sec7:77 2012-06-25 □□ 5:21:26

13. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOV E , BE L I ABL E TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

one line to give the program’s name and an idea of what it does.
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w’. This is free software, and you are welcome to redistribute it under certain conditions; type `show c’ for details.

The hypothetical commands `show w’ and `show c’ should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w’ and `show c’; they could even be mouse-clicks or menu items--whatever suits your program. You should also get your employer (if you work as a programmer) or your school, if any, to sign a “copyright disclaimer” for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision’ (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

DV455-02836F-02_EN_20120625.indd Sec7:78 2012-06-25 □□ 5:21:26

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into nonfree programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the

DV455-02836F-02_EN_20120625.indd Sec7:79 2012-06-25 5:21:26

user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries.

However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library.

A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in nonfree programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

1. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it).

Whether that is true depends on what the Library does and what the program that uses the Library does.

2. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option

DV455-02836F-02_EN_20120625.indd Sec7:80 2012-06-25 □□ 5:21:26

offer warranty protection in exchange for a fee.

3. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
   1) The modified work must itself be a software library.
   2) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
   3) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
   4) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library. In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
4. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

   Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

   This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
5. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

DV455-02836F-02_EN_20120625.indd Sec7:81 2012-06-25 □□ 5:21:26

6. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

7. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

   You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

   1) Accompany the work wi th the complet e corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
   2) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interfacecompatible with the version that the work was made with.
   3) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
   4) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
   5) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

   For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

DV455-02836F-02_EN_20120625.indd Sec7:82 2012-06-25 □□ 5:21:26

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

8. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

1) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
2) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

9. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

10. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

11. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

12. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices.

Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

DV455-02836F-02_EN_20120625.indd Sec7:83 2012-06-25 □□ 5:21:27

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

13. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

14. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.

If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

15. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

16. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

17. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRI T ING WI L L ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.

DV455-02836F-02_EN_20120625.indd Sec7:84 2012-06-25 □□ 5:21:27

Copyright (C) year name of author

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names: Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

BSD LICENSE

flex: the fast lexical analyser

Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007

The Flex Project.

Copyright (c) 1990, 1997 The Regents of the University of California. All rights reserved.

LibNet License

Copyright (c) 1998 - 2001 Mike D. Schiffman <mike@infonexus.com>

PPP/ Debian

Copyright (c) 1989 Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the <organization> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

DV455-02836F-02_EN_20120625.indd Sec7:85 2012-06-25 □□ 5:21:27

Appendix

OPENSSL

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)

LICENSE ISSUES

==========

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

==========

Copyright (c) 1998-2008 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment: “This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)”
4. The names “OpenSSL Toolkit” and “OpenSSL Project” must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called “OpenSSL” nor may “OpenSSL” appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment:
   “This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)”

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT “AS IS” AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

DV455-02836F-02_EN_20120625.indd Sec7:86 2012-06-25 □□ 5:21:27

Warranty (U.S.A)

SAMSUNG DRYER

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year All Parts and Labor
Two (2) Years Control Board Parts

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States.

To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures.

Warranty service can only be performed by a SAMSUNG authorized service center.

The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center.

SAMSUNG will provide in-home service during the warranty period at no charge, subject to availability within the contiguous United States.

In-home service is not available in all areas.

To receive in-home service, product must be unobstructed and accessible to the service agent.

If service is not available, SAMSUNG may elect to provide transportation of the product to and from an authorized service center.

SAMSUNG will repair, replace, or refund this product at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above.

All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG.

Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following: damage that occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning, or other acts of nature or God; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG that damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal and reinstallation; problems caused by pest infestations.

This limited warranty does not cover problems resulting from incorrect electric current, voltage or supply, light bulbs, house fuses, house wiring, cost of a service call for instructions, or fixing installation errors.

SAMSUNG does not warrant uninterrupted or error-free operation of the product.

DV455-02836F-02_EN_20120625.indd Sec8:87 2012-06-25 □□ 5:21:27

Warranty

Except as set forth herein, there are no warranties on this product either express or implied, and samsung disclaims all warranties including, but not limited to, any implied warranties of merchantability, infringement or fitness for a particular purpose.

No warranty or guarantee given by any person, firm, or corporation with respect to this product shall be binding on samsung.

Samsung shall not be liable for loss of revenue or profits, failure to realize savings or thter benefits, or any other special, incidental or consequential damages caused by the use, misuse, or inability to use this product, regardless of the legal theory on which the claim is based, and even if samsung has been advised of the possibility of such damages.

Nor shall recovery of any kind against samsung be greater in amount than the purchase price of the product sold by samsung and causing the alleged damage.

Without limiting the foregoing, purchaser assumes all risk and liability for loss, damage, or injury to purchaser and purchaser's property and to others and their property arising out of the use, misuse, or inability to use this product. This limited warranty shall not extend to anyone other than the original purchaser of this product, is nontransferable and states your exclusive remedy.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

To obtain warranty service, please contact SAMSUNG at:
Samsung Electronics America, Inc.
85 Challenger Road Ridgefield Park, NJ 07660
1-800-SAMSUNG (726-7864)
www.samsung.com

Visits by a Service Engineer to explain functions, maintenance or installation is not covered by warranty. Please contact your Samsung call agent for help with any of these issues.

DV455-02836F-02_EN_20120625.indd Sec8:88 2012-06-25 □□ 5:21:27

Warranty (CANADA)

SAMSUNG DRYER

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS CANADA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) year part and labor

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the Canada.

To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures.

Warranty service can only be performed by a SAMSUNG authorized service center.

The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center.

SAMSUNG will provide in-home service during the warranty period at no charge, subject to availability within the Canada.

In-home service is not available in all areas.

To receive in-home service, product must be unobstructed and accessible to the service agent.

If service is not available, SAMSUNG may elect to provide transportation of the product to and from an authorized service center.

SAMSUNG will repair, replace, or refund this product at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above.

All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG.

Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following: damage that occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning, or other acts of nature or God; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG that damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal and reinstallation; problems caused by pest infestations.

This limited warranty does not cover problems resulting from incorrect electric current, voltage or supply, light bulbs, house fuses, house wiring, cost of a service call for instructions, or fixing installation errors.

SAMSUNG does not warrant uninterrupted or error-free operation of the product.

DV455-02836F-02_EN_20120625.indd Sec8:89 2012-06-25 □□ 5:21:27

Warranty

EXCEPT AS SET FORTH HEREIN, THERE ARE NO WARRANTIES ON THIS PRODUCT EITHER EXPRESS OR IMPLIED, AND SAMSUNG DISCLAIMS ALL WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE.
NO WARRANTY OR GUARANTEE GIVEN BY ANY PERSON, FIRM, OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG.

SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE.

WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE, OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT.
THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE AND STATES YOUR EXCLUSIVE REMEDY.

Some provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from province to province.

To obtain warranty service, please contact SAMSUNG at:
Samsung Electronics Canada Inc.,
Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
1-800-SAMSUNG (726-7864)
www.samsung.com/ca
www.samsung.com/ca_fr (French)

Visits by a Service Engineer to explain functions, maintenance or installation is not covered by warranty. Please contact your Samsung call agent for help with any of these issues.

DV455-02836F-02_EN_20120625.indd Sec8:90 2012-06-25 □□ 5:21:27

Memo

SAMSUNG



bit.ly/samsungwashers

Scan the QR code* or visit
www.samsung.com/spsn
to view our helpful
How-to Videos and Live Shows

*Requires reader to be installed on your smartphone

QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com
MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com
CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com/ca www.samsung.com/ca_fr (French)

Visits by a Service Engineer to explain functions, maintenance or installation is not covered by warranty. Please contact your Samsung call agent for help with any of these issues.

Code No. DC68-02836F-02_EN

DV455-02836F-02_EN_20120625.indd Sec8:92 2012-06-25 □□ 5:21:27